February 2013

COMMONWEALTH OF VIRGINIA - Government

Icom America was recently awarded an extension to our direct Virginia Statewide Two-Way Radio Products and Services Contract.

Contract Number: VA-111104-ICOM

Term: February 21, 2009 through November 4, 2013

Website: http://vita2.virginia.gov/procurement/contractDetail.cfm?contract_id=1000722

Eligible Agencies: Mandatory use for Executive Branch agencies and institutions; optional use for all other Public Bodies of the Commonwealth of Virginia**.**

Contract Terms: Payment Terms: 2% 20, Net 30 OAC
Freight: F.O.B. Destination within CONUS
Delivery: All order(s) must be delivered 60 days ARO
Shipping: Free ground shipping

Products Available: LandMobile Product Group.

Contract Pricing: All Land Mobile equipment listed on Icom America's U.S. Land Mobile Retail Price Sheets are available for purchase under this contract. A standard discount of 37.25% off retail is offered.

Purchase Orders: Purchase orders should be issued directly to Icom America, 2380 116th Ave NE, Bellevue, WA 98004.

Quotes & Orders: Agencies can contact either an Authorized Icom Dealer or Icom America directly for price quote requests. Purchase orders must be issued and sent directly to Icom America for processing. Please indicate the ship to address as your agency or to the Icom dealer who will perform installation for you.

Phone: 800.306.1403
Fax: 425.450.6063
Email: governmentsales@icomamerica.com

Icom America Inc.
2380 116th AVE NE
Bellevue, WA 98004
425.454.8155

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Invoices: Will reflect special pricing offered to our valued Virginia State Customers, special payment terms as outlined above, contact number, as well as Customer's purchase order number.

Ship-to Destination: The ship-to address may be made out to either the:

1. Government agency address, or the
2. Icom dealer address. The dealer will receive the products, program, deliver and train agency personnel.

Support Services: Make sure to include any installation or programming instructions with your purchase order.

Programming: Make sure to include any programming instructions on your purchase order. Standard programming and installation fees apply.

Item Code	Product Group	Description	End-user Price per Unit
PROGLM1234	LandMobile	Low Tier Programming charges for Radios	$26.36
PROGLM6789	LandMobile	High Tier Programming charges for Radios	$43.93
PROGRAMMING AVIONICS	Avionics	Programming charges for Radios	$26.14
PROGRAMMING IAS	Systems	Programming charges for Repeaters	$31.38

Installation: If basic radio module installation is required, please make sure your expectations are outlined on your purchase order to Icom America.

Item Code	Product Group	Description	End-user Price per Unit
INSTALLATION AVIONICS	Avionics	Installation charges for Radios	$26.14
INSTALLLM1234	LandMobile	Low Tier Installation charges for Radios	$25.10
INSTALLLM6789	LandMobile	High Tier Installation charges for Radios	$43.93
SERVICE/SALE BUILD-UP IAS	Systems	Installation + Programming charges for Repeaters	$50.20

Product Information: Feel free to contact our Technical Support Team for any product-related questions or if you need technical assistance for our product(s):

Phone: 425-454-7619
Fax: 425-637-8417
Email: landmobile@icomamerica.com

Warranty: Standard Icom product warranty is two (2) years, yet selected radio models at three (3) years; one (1) year for supporting accessories. Contact Warranty Administration for complete details.

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Bellevue, WA 98004
425.454.8155

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Extended Warranty: Icom America offers extended warranties on selected product lines as outlined herein.

Item Code	Product Group	Description	End-user Price per Unit
EXTWARR211	LandMobile	Low Tier one year extended warranty from Enduser Date of Purchase	$15.69
EXTWARR212	LandMobile	Low Tier two year extended warranty from Enduser Date of Purchase	$27.61
EXTWARR213	LandMobile	Low Tier three year extended warranty from Enduser Date of Purchase	$38.91
EXTWARR611	LandMobile	High Tier one year extended warranty from Enduser Date of Purchase	$25.10
EXTWARR612	LandMobile	High Tier two year extended warranty from Enduser Date of Purchase	$43.93
EXTWARR613	LandMobile	High Tier three year extended warranty from Enduser Date of Purchase	$69.03
EXTWARP25P1	LandMobile	P25 Portable one year extended warranty from Enduser Date of Purchase	$40.79
EXTWARP25P2	LandMobile	P25 Portable two year extended warranty from Enduser Date of Purchase	$58.36
EXTWARP25P3	LandMobile	P25 Portable three year extended warranty from Enduser Date of Purchase	$81.58
EXTWARP25M1	LandMobile	P25 Mobile one year extended warranty from Enduser Date of Purchase	$40.79
EXTWARP25M2	LandMobile	P25 Mobile two year extended warranty from Enduser Date of Purchase	$58.36
EXTWARP25M3	LandMobile	P25 Mobile three year extended warranty from Enduser Date of Purchase	$81.58
EXTWARRPS1	Systems	CY & X-Band one year extended warranty from Enduser Date of Purchase	$50.20
EXTWARRPS2	Systems	CY & X-Band two year extended warranty from Enduser Date of Purchase	$112.95
EXTWARRPS3	Systems	CY & X-Band three year extended warranty from Enduser Date of Purchase	$200.80
EXTWARRPT1	Systems	FR Repeater one year extended warranty from Enduser Date of Purchase	$112.95
EXTWARRPT2	Systems	FR Repeater two year extended warranty from Enduser Date of Purchase	$203.94
EXTWARRPT3	Systems	FR Repeater three year extended warranty from Enduser Date of Purchase	$291.79

Service Support: Icom has Authorized Dealerships and Service centers throughout the United States from which products can be serviced (including warranty service work) or installed as necessary by various Virginia End-users. Please refer to our website to find an Icom Authorized Service Center near you:

http://www.icomamerica.com/en/support/PartsAndService/servicecenters.aspx

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ICOM

U.S. Land Mobile Retail
Product Catalog

February 2013

All stated specifications are subject to change without notice or obligation.
All Icom radios meet or exceed FCC regulations limiting spurious emissions.
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remain the property of their respective owners.

Icom America Inc.

(800) USA-ICOM

Icom America Inc.
Corporate Headquarters

2380 116th Ave. NE
Bellevue, WA 98004
Phone: (425) 454-8155
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Icom America Inc. reserves the right to change, without notice, prices, specifications, or to discontinue models. All stated specifications are subject to change without notice or obligation. All Icom radios meet FCC regulations limiting spurious emissions.

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Programming Options & Policies

Portable Antennas Options

Icom's VHF handheld radios come standard with the 150-174 MHz antenna and UHF handhelds come standard with the red tip 440-470 MHz antenna. Icom also makes the blue tip 136-155 antennas and high and low spilt UHF antennas. When you order handhelds from Icom, please confirm what frequency you need. If you need a different frequency range, we will swap out the standard antenna and replace with the one you want.

Substitution Policy

Stubby antenna and battery substitutions permitted on request, price differences may apply. When ordering please use the upgrade and substitution codes needed (ex: BP-208N sub). See the appropriate accessory pages for these new codes. Chargers and batteries cannot be substituted on the F3001 & F3011 series radios.

Programming & Installation Options - Portables & Mobiles

We provide customized programming and optional module installation on new radio orders. Please add the appropriate part number to your PO.

Programming & Installation Fees - IAS Equipment

Many Icom America System products offer internal modules that require installation and programming. We provide customized programming and optional module installation on new IAS orders. Please add a line item to your PO.

Warranty Equipment Chart

Icom America Inc warrants its Icom manufactured land mobile products from all factory defects in material or workmanship under normal use and service. All warranties start from the time the end user purchases all products.

ONE YEAR WARRANTY
CY Repeater*
X-Band Repeater*
Voting Receiver*
CY5000-CY6000 Repeater*
IAS 100D Repeater*
IAS 100W Repeater*

TWO YEAR WARRANTY
4088A FRS
F3011-F4011 Series
F3001-F4001 Series
F11-F21 Series
F3101D-F4101D Series
F3021-F4021Series
F3021-F4021 Series
F33G-F43G Series
F50-F60 Series
F70-F80 Series
F43TR F121-F221/S Series
F5011-F6011Series
F5021-F6021 Series
F5121D-F6121D Series
F1721-F1821 Series
F621TR
FR3000-FR4000
FR5000-FR6000
URFR5000-URFR6000

THREE YEAR WARRANTY
F3161-F4161/D Series
F70D-F80D Series
F9011-F9021 Series
F5061-F6061/D Series
F1721D-F1821D Series
F9511-F9521 Series

**The F121/F221, FR/UR repeater in the IAS product will receive a two year warranty and everything else will receive a one year warranty.*

ONE YEAR WARRANTY - ACCESSORIES
Speaker Microphones
Headsets & EarPiece
Mobile Microphones
Batteries
Chargers
Antennas
Belt Clips
PowerSupplies
External Speakers
Duplexers
Internal Modules
Separation Kits

Icom Service Centers

Washington
Icom America Inc.

2380 116th Ave NE
Bellevue, WA 98004

Ph# 800-872-4266
Fax# 425-454-1509
Email: service@icomamerica.com

LAND MOBILE, MARINE, AVIATION, AMATEUR

California
Joe's Electronics & Repairs Inc.

Contact Person: Joe
14430 Valley Blvd.
City of Industry, CA. 91746

Account # 38880
Ph# 626-330-5338
Fax# 626-810-9656
Email: joek91755@yahoo.com

LAND MOBILE

Illinois
AJR INT'L, Inc.

Contact Person: Sandra
300 Regency Drive
Glendale Heights, IL 60139

Account # 43397
Ph# 1-888-616-9600
Fax# 630-832-0333
Email: icomservice@ajrintl.com

LAND MOBILE, MARINE VHF
NOT: M802, M700PRO, M710, M700, M600

New York
United Radio

Contact Person: Ron Cook
5703 Enterprise Parkway
East Syracuse, NY 13057

Account # 46734, 45678
Ph# 315-445-3239
Ph# 800-599-2101
Fax# 315-445-3299
Email: rcook@unitedradio.com

LAND MOBILE, MARINE VHF
NOT: M802, M700PRO, M710, M700, M600

Portable Radio Selection Chart

from entry level to specialized, full-featured radios; Icom has the right radio for the right job

	Entry Level / Standard					Specialized / Full-featured					
Radio	**F3001**	**F3011**	**F3101D**	**F3021**	**F43TR**	**F50 (V)**	**F3161**	**F3161D**	**F70**	**F70D**	**F9011**
Number of Channels	16	16	16	128	250	128	512	512	256	256	512
Frequency Range	VHF: 136-174MHz UHF: 400-470 or 450-512MHz	VHF: 136-174MHz UHF: 400-470 or 450-512MHz	VHF: 136-174MHz UHF: 400-470 or 450-512MHz	VHF: 136-174MHz UHF: 400-470 or 450-512MHz	UHF: 400-470MHz or 450-512MHz	VHF: 136-174MHz UHF: 400-470 or 450-512MHz	VHF: 136-174MHz UHF: 400-470 or 450-512MHz	VHF: 136-174MHz UHF: 400-470 or 450-512MHz	VHF: 136-174MHz UHF: 400-470 or 450-512MHz	VHF: 136-174MHz UHF: 380-450, 400-470 or 450-512MHz	VHF: 136-174MHz UHF: 380-470, 400-470 or 450-512MHz
Digital or Analog	Analog	Analog	Analog & Digital	Analog	Analog	Analog	Analog/Digital Upgradeable	Analog & Digital	Analog/P25 Digital Upgradeable	Analog & Digital	Analog & Digital
LTR® Trunking			X		X		X	X			
Digital Trunking			IDAS™ single-site trunking				IDAS Digital Upgradeable	IDAS Trunking			P25 Trunking
Intrinscially Safe Version						X	X	X	X	X	
P25 capable									P25 upgradable	X	X
Submersible						X			X	X	X
Water resistant IP54 rating	X	X	X				X	X			
Emergency Call	X	X	X	X	X	X	X	X	X	X	X
Enhanced Encryption			X (optional)			X (optional)	X (optional)	X (optional)	X (optional)	X (optional)	X (optional)
Basic Encryption				X (built-in)		X (built-in)	X (built-in)	X (built-in)	X (built-in)	X (built-in)	X (built-in)
Text Messaging/ GPS			X				X	X			
DTMF Signaling	X		X	X	X	X	X	X	X	X	X
MDC1200 Signaling*	X		X	X	X	X	X	X	X	X	X
Full keypad version				X			X	X	X	X	X
Display				X	X	X	X	X	X	X	X**

*MDC Capabilites differ depeding on model
** Two of 3 versions have displays

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PORTABLE ACCESSORIES

	ANT ADPTR	ANTENNAS			STUBBY ANTENNAS		CUT ANT.
	AD98FSC	**FASC25V** 136-150MHz **FASC55V** 150-174MHz **FASC25U** 400-430MHz **FAS57U** 430-470MHz **FASC72U** 470-520MHz **FASC03U** 380-430MHz	**FAC24V** 136-150MHz **FAC59V** 150-174MHz **FAC27U** 400-470MHz **FAS56U** 450-520MHz **FAC74U** 490-520MHz	**FAS65V** 148-160MHz **FAS66V** 160-174MHz **FAS67VC** 136-174MHz	**FASC56VS** 150-162MHz **FASC57VS** 160-174MHz **FASC73US** 450-490MHz	**FAS62VS** 150-162MHz **FAS63VS** 160-174MHz **FAS57VS** 450-490MHz	**FASC61VC** 136-174MHZ **FASC61UC** 380-520MHZ
F3011/F4011	X	X			X		X
F3001/F4001	X	X			X		X
F14/F24	X	X			X		X
F3101DF4101D	X	X			X		X
F3021/F4021	X	X			X		X
F33G/F43G	X	X			X		X
F50/F60			X			X	
F3161/F4161	X	X			X		X
F70/F80	X	X			X		X
F9011/F9021				X			
F43TR	X	X			X		X
4088A							

	BATTERY PACKS						
	BP227 (Li-ion) 7.2V/1850mAh 1950mAh (typ.) **BP227FM** (Li-ion) 7.2V/1850mAh I.S.	**BP232N** (Li-ion) 7.2 /1900mAh 2000mAh (typ.)	**BP232FM** (Li-ion) 7.2 /2000mAh I.S. For IS models only	**BP253** (Li-ion) 7.4 /1570mAh (min) 1650mAh (typ.)	**BP254** (Li-ion) 7.4V/2900mAh (min) 3040mAh (typ) **BP254FM** (Li-ion) 7.4V/3040mAh	**BP264** (Ni-MH) 7.2V/1400mAh	**BP265** (Li-ion) 7.2V/1900mAh (min) 2000mAh (typ)
F3011/F4011		X					
F3001/F4001		X				X	X
F14/F24		X					
F3101DF4101D		X					X
F3021/F4021		X					
F33G/F43G		X					
F50/F60	X						
F3161/F4161		X	X				
F70/F80				X	X		
F9011/F9021					X		
F43TR		X					
4088A							

PORTABLE ACCESSORIES

BATTERY CASES

	BP226 AA x 5 cells (water resistant)	**BP237** AA x 6 cells (water resistant)	**BP240** AAA x 6 cells	**BP263** AA x 6 cells			
F3011/F4011			X				
F3001/F4001				X			
F14/F24			X				
F3101DF4101D				X			
F3021/F4021			X				
F33G/F43G							
F50/F60	X		X				
F3161/F4161			X				
F70/F80		X					
F9011/F9021		X					
F43TR			X				
4088A							

CHARGERS

	BC119N Rapid (Req. BC145)	**BC121N** Rapid Multi (Req. BC157)	**BC152** Trickle (Req. BC147)	**BC160** Rapid (BC145 in box)	**BC171** Trickle (BC147 in box)	**BC190** Rapid sensing (BC145 in box)	**BC192** Trickle BP-264 (BC147 in box)
F3011/F4011	X (Req. AD106)	X (Req. AD106)		X	X		
F3001/F4001							X
F14/F24	X (Req. AD106)	X (Req. AD106)		X	X		
F3101DF4101D							
F3021/F4021	X (Req. AD106)	X (Req. AD106)		X	X		
F33G/F43G	X (Req. AD106)	X (Req. AD106)		X	X		
F50/F60	X (Req. AD100)	X (Req. AD100)	X			X	
F3161/F4161	X (Req. AD106)	X (Req. AD106)		X	X		
F70/F80	X (Req. AD110)	X (Req. AD110)					
F9011/F9021	X (Req. AD110)	X (Req. AD110)					
F43TR	X (Req. AD106)	X (Req. AD106)		X	X		
4088A	X (Req. AD105)	X (Req. AD105)					

PORTABLE ACCESSORIES

	CHARGERS		AC ADAPTERS				
	BC193 Rapid (BC123 in box)	**BC197** Rapid Multi (BC157 & adapter cups included)	**BC123** 12V/1A For BC193	**BC145** 16V/0.93A For BC119/ BC160	**BC147** 12V/200mA For BC152, BC171/BC192	**BC157** 12V/6.6A For BC121/ BC197	
F3011/F4011		X		X		X	
F3001/F4001	X	X	X		X	X	
F14/F24		X		X	X	X	
F3101DF4101D	X	X	X			X	
F3021/F4021		X		X	X	X	
F33G/F43G		X		X	X	X	
F50/F60				X	X	X	
F3161/F4161		X		X	X	X	
F70/F80				X		X	
F9011/F9021				X		X	
F43TR		X		X		X	
4088A						X	

	CHARGER ADAPTER CUPS						
	AD100 for BP227/FM	**AD106** for BP232N/FM	**AD110** for BP253/BP254	**AD120** for BP264	**AD121** for BP265	**AD122** for BP232N/FM	
F3011/F4011		X				X	
F3001/F4001				X	X		
F14/F24		X				X	
F3101DF4101D					X		
F3021/F4021		X				X	
F33G/F43G		X				X	
F50/F60	X						
F3161/F4161		X				X	
F70/F80			X				
F9011/F9021			X				
F43TR		X				X	
4088A							

PORTABLE ACCESSORIES

BELT CLIPS

	MB86 Swivel type	**MB93** Swivel type	**MB94** Alligator type	**MB98** Alligator type	**MB115** Alligator type	**MB124** Alligator type	
F3011/F4011		X	X				
F3001/F4001						X	
F14/F24		X	X				
F3101DF4101D						X	
F3021/F4021		X	X				
F33G/F43G		X	X				
F50/F60	X			X			
F3161/F4161		X	X				
F70/F80		X	X				
F9011/F9021					X		
F43TR		X	X				
4088A							

	LEATHER BELT HANGER		CIG. LIGHTER CABLE		DC POWER CABLES		
	MB96F Fixed type belt hanger	**MB96N** Swivel type belt hanger	**CP17L** (Use w/BC119N or BC193)	**CP23L** (Use w/BC119N or BC193)	**OPC515L** (Use w/BC119N or BC193)	**OPC656** (Use w/ BC121N or BC197)	
F3011/F4011	X	X	X	X	X	X	
F3001/F4001			X	X	X	X	
F14/F24	X	X	X	X	X	X	
F3101DF4101D			X	X	X	X	
F3021/F4021	X	X	X	X	X	X	
F33G/F43G	X		X	X	X	X	
F50/F60	X	X	X	X	X	X	
F3161/F4161	X	X	X	X	X	X	
F70/F80	X	X	X	X	X	X	
F9011/F9021			X	X	X	X	
F43TR	X	X	X	X	X	X	
4088A			X	X	X	X	

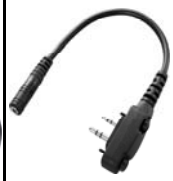
PORTABLE ACCESSORIES

SPEAKER MICROPHONES

	HM46L	HM131/SC	HM138 (IPX7)	HM158L	HM159L/SC	HM169 (IP57) / HM169IS (IP57)	HM184 (IP57)
F3011/F4011	**X**			**X**	**X** (HM159L)		
F3001/F4001	**X**			**X**	**X** (HM159L)		
F14/F24	**X**			**X**	**X** (HM159L)		
F3101DF4101D	**X**			**X**	**X** (HM159L)		
F3021/F4021	**X**			**X**	**X** (HM159L)		
F33G/F43G	**X**			**X**	**X** (HM159L)		
F50/F60			**X**			**X** (HM169)	
F3161/F4161		**X** (HM131SC)			**X** (HM159SC)	**X**	
F70/F80			**X**		**X** (HM159SC)	**X** (HM169)	
F9011/F9021							**X**
F43TR	**X**			**X**	**X** (HM159L)		
4088A	**X** (HM46)	**X** (HM131)					

	GPS SPEAKER MIC		EARPHONE-MICROPHONES			EARPHONE	
	HM170GP (IP57 & GPS)	HM171GP (IP54 & GPS)	HM128L (w/Microphone)	HM153L	HM166L	SP13	SP27
F3011/F4011			**X**	**X**	**X**	**X**	**X**
F3001/F4001			**X**	**X**	**X**		**X**
F14/F24			**X**	**X**	**X**	**X**	**X**
F3101DF4101D		**X**	**X**	**X**	**X**		
F3021/F4021			**X**	**X**	**X**	**X**	**X**
F33G/F43G			**X**	**X**	**X**		
F50/F60							
F3161/F4161	**X**					**X** (w/AD52)	**X** (w/AD52)
F70/F80							
F9011/F9021							
F43TR			**X**	**X**	**X**	**X**	**X**
4088A			**X** (HM128)				

PORTABLE ACCESSORIES

	HEADSETS			VOX/PTT	ADPTR	EARPHONE ADPTR	ACC ADPTR
	HS94 Earhood type with boom mic Req. VS-1/L/SC	**HS95** Behind-the-head type Req. VS-1/L/SC	**HS97** Thoat mic Req. VS-1/L/SC	**VS-1/L/ SC/MC** case - use with HS94/95/97	**OPC2004** Plug adapter cable to use with HS94/95/97	**AD52**	**AD118** Allows use of 6-pin Hirose plug accessories
							
F3011/F4011	X	X	X	X (VS-1L)			
F3001/F4001	X	X	X		X		
F14/F24	X	X	X	X (VS-1L)			
F3101DF4101D	X	X	X		X		
F3021/F4021	X	X	X	X (VS-1L)			
F33G/F43G	X	X	X	X (VS-1L)			
F50/F60							
F3161/F4161	X	X	X	X (VS-1SC)		X	
F70/F80	X	X	X	X (VS-1SC)			
F9011/F9021	X	X	X	X (VS-1MC)			X
F43TR	X	X	X	X (VS-1L)			
4088A	X	X	X	X (VS-1)			

	INTERNAL UNIT OPTIONS						
	UT108 DTMF decoder	**UT109** Non-rolling voice scrambler	**UT110** Rolling voice scrambler	**UT124** Man Down Unit	**UT125** AES/DES Encryption Unit	**UT126** IDAS Digital board	**UT128** DES Encryption Unit
F3011/F4011							
F3001/F4001							
F14/F24	X	X	X	X			
F3101DF4101D							
F3021/F4021	X	X	X	X			
F33G/F43G	X	X	X	X			
F50/F60							
F3161/F4161		X	X	X		X	
F70/F80		X	X	X			
F9011/F9021				X	X		X
F43TR	X	X	X	X			
4088A							

F3011 - F4011 Series

Entry Level Portables

VERSIONS

Includes Rapid Charger in Box:

VHF	F3011	136-174 MHz
UHF	F4011	400-470 or 450-512 MHz

SPECS & FEATURES

Output Power:	5W (VHF); 4W (UHF)
Channels:	16
Channel Spacing:	12.5 / 25kHz
PLL Chnl Spacing:	2.5, 3.125kHz; 5, 6.25kHz
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Programmable:	PC with CSF3011 software
Weight:	10.6oz (with BP-232N)
Other Features:	IP54 rating for dust protection & splash proof Low battery alert with blinking LED & beep 3 Buttons Talk around function 3-color LED (red, green & orange) Time out timer 2-step power save

SIGNALING

CTCSS / DTCS Encode/Decode

COMES WITH

Rapid Charger (BC-160)
Antenna (FA-SC55V or FA-SC57U)
Battery (BP-232N)
Belt Clip (MB-94)
Owners manual

WARRANTY

2-Year

IP54
DUST PROTECTION
& SPLASH PROOF

Meets MIL-STD 810

OTTO
ACCESSORIES
AVAILABLE

MDC 1200 Compatible

F3011 - F4011 Series

Configurations

Model	Description
F3011 41 RC	136-174 MHz, 16 channels, BP-232N and BC-160 rapid charger in the box
F4011 41 RC	400-470 MHz, 16 channels, BP-232N and BC-160 rapid charger in the box
F4011 42 RC	470-512 MHz, 16 channels, BP-232N and BC-160 rapid charger in the box

Accessories

Model	Description
Antennas	
CEN EXD 400 MXI	Stubby antenna 400-430MHz
CEN EXD 400 MXI Upg	Pull standard antenna and sub CEN EXD 400 MXI
FA-SC25U	Flexible antenna for 400-430MHz UHF (Green tip)
FA-SC25V	Flexible antenna for 136-155MHz VHF (Blue tip)
FA-SC55V	Flexible antenna for 146-174MHz VHF (Red tip)
FA-SC57U	Flexible antenna for 430-470MHz UHF (Red tip)
FA-SC72U	Flexible antenna for 470-512MHz
FA-SC56VS	Stubby antenna 150-160MHz (red ring)
FA-SC56VS Upg	Pull standard antenna and sub FA-SC56US
FA-SC57VS	Stubby antenna 160-174MHz (green ring)
FA-SC57VS Upg	Pull standard antenna and sub FA-SC57US
FA-SC73US	Stubby antenna 450-470MHz (red ring)
FA-SC73US Upg	Pull standard antenna and sub FA-SC73US
FA-SC61UC	380-512MHz cut antenna to frequency needed
FA-SC61UC Upg	Pull standard antenna and sub FA-SC61UC
FA-SC61VC	136-174MHz cut antenna to frequency needed
FA-SC61VC Upg	Pull standard antenna and sub FA-SC61VC
Batteries	
BP-232N	7.4V Li-ion 2000mAh typical capacity & 1900mAh minimum value battery
BP-240	Alkaline battery case fits 6 AAA batteries (1W output power)
Belt Clips	
MB-93	Swivel belt clip
MB-94	Alligator belt clip (standard belt clip)
MB-96N	Swivel leather belt hanger. Use with MB-93.
MB-96F	Fixed leather belt hanger. Use with MB-94.
Cables	
OPC-656	DC power cable - for use with BC-121N (12-16V DC req.)
Cases	
LCF14 Loop	Leather Case with a loop
LCF14 Clip	Leather Case with a clip
LCF14 Swivel	Leather Case with a swivel
NCF14 Clip	Nylon Carrying Case with a clip
NCF14 Loop	Nylon Carrying Case with a loop
Chargers	
AD-106	Adapter for BC119N rapid charger, & BC-121 6 unit multi charger
AD-122	Adapter cup for BC-197 gang charger for BP-232 radios
BC-121N	Multi-Unit (6) Desktop Chgr (BC-157 & AD-106 adapter cups req.)
BC-121N AD106	BC121 + BC157 02 + (6) AD-106 Multi-Unit Charger Kit
BC-121N AD106 220V	BC121 + BC157 04 + (6) AD-106 Multi-Unit Charger Kit
BC-145SA 31	117V AC adapter for BC-160/BC-119N (included with rapid charger)
BC-145SE 32	220V AC adapter for BC-160/BC-119N (included w/RC)

F3011 - F4011 Series

Accessories Continued

Model	Description
Chargers Continued	
BC-157S 07	117V power supply for the BC-121N gang charger
BC-157S 09	220V power supply for BC121N
BC-160 01	117V Desktop Rapid Charger
BC-160 02	220V Desktop Rapid Charger
BC-197 22	110V gang charger for radios with the BP-232N battery
BC-197 23	220V gang charger for radios with the BP-232N battery
IA-TC100B	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L
Extended Warranty	
EXTWARR211	1 year extended warranty for a total of 3 years
EXTWARR212	2 year extended warranty for a total of 4 years
EXTWARR213	3 year extended warranty for a total of 5 years
Headsets	
HS-94	Ear-piece type headset for VS-1L
HS-95	Headset with boom mic for VS-1L
HS-97	Earphone with throat mic for VS-1L
VS-1L	VOX/PTT unit (requires headset)
Otto V4-10479	Lightweight single speaker headset w./in-line ptt
Otto V4-BA2CS1	Breeze behind-the-head headset, single speaker, left boom mic, std ptt
Otto V4-BA2CS5	Breeze behind-the-head headset, single speaker, left boom mic., mini ptt
Otto V4-BA2CS3B	Breeze w/inline ptt, w/pigtail for remote PTT
Otto V4-EX2CS5	Explorer, lightweight, flexible earloop w/boom mic, quick disconnect
Otto V4-HN2C3B	Hurricane behind the head w/in line ptt w/pitgtail jack for remote ptt options
Manuals	
98815492	F3011/4011 Owners Manual
97715493	F3011 Service Manual
97715490	F4011 Service Manual
94415494	F3011 CD Service Manual
94415491	F4011 CD Service Manual
Programming	
CS-F3011	Programming Windows Software
OPC-478	Programming Cloning Cable for PC to Radio with RC232S
OPC-478UC	Programming Cloning Cable for PC to Radio with USB connector
PROGLM1234	Programing for 1-24 radios, 25-49 radios or 50+ radios
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI2	Cable for RedHawk mic with 2-in connector
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone

F3011 - F4011 Series

Accessories Continued

Model	Description
Speaker Microphones & Earpieces	
HM-158L LG	Speaker microphone with compact & durable body. Equipped with an earphone jack and a revolving clip
HM-159L LG	Heavy duty speaker microphone with metal alligator clip and screw down L-shape
IMPACT HD1-I3	Compact lightweight speaker mic, splash proof, 3.5mm accessory jack
IMPACT HD3-I3	Professional grade speaker mic, water resistant, 3.5mm accessory jack
Otto V1-EH22R131	D-hanger style piece to use with Otto speaker mics - right angle plug
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug
Otto V2-10288	Evolution heavy duty speaker mic
Otto V2-L2CS11	Profile speaker mic
Otto V2-C2CS11	Legacy speaker mic
SP-13	Earphone for handhelds
Wire Kits	
HM-153L	Heavy duty earphone-mic - two screw connector. Compact microphone with PTT switch clips to your lapel
HM-166L	Earphone microphone - medium duty
Otto E1-EB2CC131	1-wire earbud with in-line mic/PTT
Otto E1-ET2CS131	2-wire D-hanger with in-line mic/ptt
Otto E1-EB2CS131	2-wire earbud palm mic kit
Otto V1-10515	Barrel PTT to use with headsets with pigtails
Otto V1-10519	80mm body PTT to use with headsets with pigtails

F3001 - F4001 Series

Entry Level Portables

VERSIONS

Li-Ion Battery and Rapid Charger in the Box

Or

Ni-MH Battery and Drop-In Trickle Charger in the Box

VHF	F3001	136-174 MHz
UHF	F4001	400-470 or 450-512 MHz

SPECS & FEATURES

Output Power:	5W (VHF); 4W (UHF)
Channels:	16
Channel Spacing:	12.5 / 25kHz
PLL Chnl Spacing:	2.5, 3.125kHz; 5, 6.25kHz
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Programmable:	PC with CSF3001 software
Weight:	11.6oz (with BP-264)
Other Features:	IP54 rating for dust protection & splash proof Low battery alert with blinking LED & beep 3 Buttons Talk around function 3-color LED (red, green & orange) Time out timer 2-step power save Lone worker function

SIGNALING

CTCSS / DTCS Encode/Decode
2-Tone, 5-Tone
MDC1200 PTT ID and Emergency

COMES WITH

Charger (BC-192 or BC-193)
Antenna (FA-SC55V or FA-SC57U)
Battery (BP-264 or BP-265)
Belt Clip (MB-124)
Owners manual

WARRANTY

2-Year

IP54
DUST PROTECTION & SPLASH PROOF

Meets MIL-STD 810

OTTO
ACCESSORIES AVAILABLE

MDC 1200 Compatible

F3001 - F4001 Series

Configurations

Model	Description
Ni-MH Battery & Trickle Charger Versions	
F3001 02 DTC	136 - 174 MHz, 16 channels, BP-264 & BC-192 drop-in trickle chgr in the box
F4001 02 DTC	400-470 MHz, 16 channels, BP-264 & BC-192 drop-in trickle chgr in the box
F4001 42 DTC	450-512 MHz, 16 channels, BP-264 & BC-192 drop-in trickle chgr in the box
Li-ion Battery & Rapid Charger Versions	
F3001 03 RC	136 - 174 MHz, 16 channels, BP-265 and BC-193 rapid charger in the box
F4001 03 RC	400-470 MHz, 16 channels, BP-265 and BC-193 rapid charger in the box
F4001 43 RC	450-512 MHz, 16 channels, BP-265 and BC-193 rapid charger in the box

Accessories

Model	Description
Antennas	
CEN EXD 400 MXI	Stubby antenna 400-430
CEN EXD 400 MXI Upg	Pull standard antenna and sub CEN EXD 400 MXI
FA-SC25U	Flexible antenna for 400-430MHz UHF (Green tip)
FA-SC25V	Flexible antenna for 136-155MHz VHF (Blue tip)
FA-SC55V	Flexible antenna for 146-174MHz VHF (Red tip)
FA-SC57U	Flexible antenna for 430-470MHz UHF (Red tip)
FA-SC72U	Flexible antenna for 470-520MHz UHF (Blue tip)
FA-SC56VS	Stubby antenna 150-160MHz (red ring)
FA-SC56VS Upg	Pull standard antenna and sub FA-SC56US
FA-SC57VS	Stubby antenna 160-174MHz (green ring)
FA-SC57VS Upg	Pull standard antenna and sub FA-SC57US
FA-SC73US	Stubby antenna 450-470MHz (red ring)
FA-SC73US Upg	Pull standard antenna and sub FA-SC73US
FA-SC61UC	380-512MHz cut antenna to frequency needed
FA-SC61UC Upg	Pull standard antenna and sub FA-SC61UC
FA-SC61VC	136-174MHz cut antenna to frequency needed
FA-SC61VC Upg	Pull standard antenna and sub FA-SC61VC
Batteries	
BP-263	Alkaline battery case fits 6 AA batteries (1W output power)
BP-264	7.2V/1400mAh Ni-MH battery
BP-265	Li-Ion 7.2V/1900mAh(min) 2000mAh(typical)
Belt Clip	
MB-124	Alligator belt clip (standard belt clip)
Cables	
OPC-515L	DC power cable for use with BC-192
Cases	
LCF3000 Swivel	Leather Case with Swivel
NCF3000 Clip	Leather Case with Clip
Chargers	
AD-120	Adapter Cup for the BP-264
AD-121	Adapter Cup for the BP-265
BC-123SA	110V AC adapter for BC-193 (included w/BC-193)
BC-123SE	220V AC adapter for BC-193
BC-147SA 31	117V AC adapter for BC-192
BC-147SE 32	220V AC adapter for BC-192

F3001 - F4001 Series

Accessories Continued

Model	Description
Chargers Continued	
BC-157S 07	117V power supply for the BC-121N gang charger
BC-157S 09	220V power supply for the BC-121N gang charger
BC-191 12	110V rapid charger for BP264. Will NOT charge Li-ion battery
BC-192 12	110V Drop-in trickle charger for BP264 (charges battery in appox 15 hrs)
BC-193 12	110V rapid charger for BP265. Will NOT charge Ni-MH battery
BC-197 02	110V gang charger for BP-264. (F3001/F4001 DTC)
BC-197 03	220V gang charger for BP-264. (F3001/F4001 DTC)
BC-197 12	110V gang charger for BP-265. (F3001/F4001 RC)
BC-197 13	220V gang charger for BP-265. (F3001/F4001 RC)
Extended Warranty	
EXTWARR211	1 year extended warranty for a total of 3 years
EXTWARR212	2 year extended warranty for a total of 4 years
EXTWARR213	3 year extended warranty for a total of 5 years
Headsets/VOX	
HS-94	Ear-piece type headset for VS-1L
HS-95	Headset with boom mic for VS-1L
HS-97	Earphone with throat mic for VS-1L
OPC-2004	VOX/PTT unit (requires headset)
Otto V4-10479	Lightweight single speaker headset w./in-line ptt
Otto V4-BA2CS1	Breeze behind-the-head headset, single speaker, left boom mic, std ptt
Otto V4-BA2CS5	Breeze behind-the-head headset, single speaker, left boom mic, mini ptt
Otto V4-BA2CS3B	Breeze w/inline ptt, w/pigtail for remote PTT
Otto V4-EX2CS5	Explorer, lightweight, flexible earloop w/boom mic, quick disconnect
Otto V4-HN2C3B	Hurricane behind the head w/in line ptt w/pitgtail jack for remote ptt options
Manuals	
98815600	F3001/4001 Owners Manual
97715519	F3001 Service Manual
97715515	F4001 service manual
94415602	F3001/4001 CD Service Manual
Programming	
CS-F3001	Programming Windows Software
OPC-478	Programming Cloning Cable for PC to Radio with RC232S
OPC-478UC	Programming Cloning Cable for PC to Radio with USB connector
PROGLM1234	Programming for 1-24 radios, 25-49 radios or 50+ radios
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI2	Cable for RedHawk mic with 2-in connector
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone

F3001 - F4001 Series

Accessories Continued

Model	Description
Speaker Microphones & Earpieces	
HM-158L	Speaker mic with compact & durable body. Equipped with an earphone jack and a revolving clip
HM-159L	Heavy duty speaker microphone with metal alligator clip and screw down L-shape connector
IMPACT HD1-I3	Compact lightweight speaker mic, splash proof, 3.5mm accessory jack
IMPACT HD3-I3	Professional grade speaker mic, water resistant, 3.5mm accessory jack
Otto V1-EH22R131	D-hanger style piece to use with Otto speaker mics - right angle plug
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug
Otto V2-10288	Evolution heavy duty speaker mic
Otto V2-L2CS11	Profile speaker mic
Otto V2-C2CS11	Legacy speaker mic
SP-13	Earphone for handhelds
Wire Kits	
HM-153L	Heavy duty earphone-mic - two screw connector. Compact microphone with PTT switch clips to your lapel
HM-166L	Earphone microphone - medium duty
Otto E1-EB2CC131	1-wire earbud with in-line mic/PTT
Otto E1-ET2CS131	2-wire D-hanger with in-line mic/PTT
Otto E1-EB2CS131	2-wire earbud palm mic kit
Otto V1-10515	Barrel PTT to use with headsets with pigtails
Otto V1-10519	80mm body PTT to use with headsets with pigtails

F3101D - F4101D Series

IDAS™ Entry Level Portables

VERSIONS

Includes Rapid Charger in Box:

VHF	F3101D 01	136-174 MHz
UHF	F4101D 01	400-470 MHz
	F4101D 21	450-512 MHz

SPECS & FEATURES

Output Power:	5W (VHF); 4W (UHF)
Channels:	16
Channel Spacing:	(VHF) 25 / 12.5 / 6.25kHz (UHF) 12.5 / 6.25kHz
PLL Chnl Spacing:	2.5, 3.125kHz
Mil Spec:	810 F
Scan:	Normal & priority
Programmable:	PC with CSF3101D/F5121D software
Weight:	11.3oz (with BP-265)
Other Features:	IDAS™ conventional IDAS™ single-site trunking Digital / Analog mixed mode operation Lone worker function 800mW loud audio Channel announcement IP54 dust protected & splash proof

SIGNALING

CTCSS / DCS / DTMF Encode/Decode
2/5 Tone Encode/Decode
MDC1200 (PTT ID & Emergency)

COMES WITH

Rapid Charger (BC-193)
Antenna (FA-SC55V or FA-SC57U)
Battery (BP-265)
Belt Clip (MB-124)
Owners manual

WARRANTY

2-Year

IP54
DUST PROTECTION
& SPLASH PROOF

Meets
MIL-STD 810

OTTO
ACCESSORIES
AVAILABLE

iDAS™

F3101D - F4101D Series

Configurations

Model	Description
F3101D 01 RC	136 - 174 MHz, 12.5/25kHz, IDAS, 16 channels, BC-193 rapid charger in the box
F4101D 01 RC	400 - 470 MHz, 12.5KHz only & IDAS, 16 channels, BC-193 rapid charger in the box
F4101D 21 RC	450 - 512 MHz, 12.5KHz only & IDAS, 16 channels, BC-193 rapid charger in the box

Accessories

Model	Description
Antennas	
CEN EXD 400 MXI	Stubby antenna 400-430
CEN EXD 400 MXI Upg	Pull standard antenna and sub CEN EXD 400 MXI
FA-SC25U	Flexible antenna for 400-430MHz UHF (Green tip)
FA-SC25V	Flexible antenna for 136-155MHz VHF (Blue tip)
FA-SC55V	Flexible antenna for 146-174MHz VHF (Red tip)
FA-SC57U	Flexible antenna for 430-470MHz UHF (Red tip)
FA-SC72U	Flexible antenna for 470-520MHz UHF (Blue tip)
FA-SC56VS	Stubby antenna 150-160MHz (red ring)
FA-SC56VS Upgrade	Pull standard antenna and sub FA-SC56US
FA-SC57VS	Stubby antenna 160-174MHz (green ring)
FA-SC57VS Upgrade	Pull standard antenna and sub FA-SC57US
FA-SC73US	Stubby antenna 450-470MHz (red ring)
FA-SC73US Upgrade	Pull standard antenna and sub FA-SC73US
FA-SC61UC	380-512MHz cut antenna to frequency needed
FA-SC61UC Upgrade	Pull standard antenna and sub FA-SC61UC
FA-SC61VC	136-174MHz cut antenna to frequency needed
FA-SC61VC Upgrade	Pull standard antenna and sub FA-SC61VC
Laird EXH 160 MXI	155-165MHz ¼ wave rubber duck antenna 8.5 in in length; MXI connector
Larsen SPHL10160IC	154-166MHz helical std 1/4 wave 8" antenna
Batteries	
BP-263	Alkaline battery case fits 6 AA batteries (1W output power)
BP-265	Li-ion 7.4V 2000mAh (typical capacity), 1900mAh (minimum value)
Belt Clip	
MB-124	Alligator belt clip (standard belt clip)
Cables	
CP-17L	Cigarette lighter cable
OPC-515L	DC power cable for use with BC-192
OPC656	DC power cable for use with BC-197
Cases	
LC-F3000	Leather Case with Swivel
NC-F3000	Leather Case with Clip
Chargers	
AD-121	Adapter cup for BC-197 gang charger
BC-193 12	110V rapid charger for BP-265.
BC123SA 51	117V AC adapter for BC193
BC123SE 52	220V AC adapter for BC194
BC-197 12	110V 6 unit gang charger (includes BC-157 & adapter cups)
BC-197 13	220V 6 unit gang charger (includes BC-157 & adapter cups)
BC-157S 07	117V power supply for the BC-197 gang charger
BC-157S 09	220V power supply for BC-197 gang charger
Extended Warranty	
EXTWARR211	1 year extended warranty for a total of 3 years
EXTWARR212	2 year extended warranty for a total of 4 years
EXTWARR213	3 year extended warranty for a total of 5 years
Headsets/VOX	
HS-94	Ear-piece type headset for VS-1L
HS-95	Headset with boom mic for VS-1L

F3101D - F4101D Series

Accessories Continued

Model	Description
Headsets/VOX Continued	
HS-97	Earphone with throat mic for VS-1L
OPC-2004	VOX/PTT unit (requires headset)
Otto V4-10479	Lightweight single speaker headset w./in-line PTT
Otto V4-BA2CS1	Breeze behind-the-head headset, single speaker, left boom mic, std PTT
Otto V4-BA2CS5	Breeze behind-the-head headset, single speaker, left boom mic, mini PTT
Otto V4-BA2CS3B	Breeze w/in-line PTT, w/pigtail for remote PTT
Otto V4-EX2CS5	Explorer, lightweight, flexible earloop w/boom mic, quick disconnect
Otto V4-HN2C3B	Hurricane behind the head w/in-line PTT w/pitgtail jack for remote PTT options
Manuals	
98815591	Owners manual
97715592	Service manual
94415593	CD Service manual
Programming	
CS-F3101D	Programming Windows Software
OPC-478	Programming Cloning Cable for PC to Radio with RC232S
OPC-478UC	Programming Cloning Cable for PC to Radio with USB connector
PROGLM6789	Programming for 1-24 radios, 25-49 radios or 50+ radios
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI2	Cable for RedHawk mic with 2-in connector
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone
Speaker Microphones & Earpieces	
HM-158L	Speaker microphone with compact & durable body. Equipped with an earphone jack and a revolving clip
HM-159L	Heavy duty speaker microphone with metal alligator clip and screw down L-shape connector
HM-171GP	GPS speaker mic
IMPACT HD1-I3	Compact lightweight speaker mic, splash proof, 3.5mm accessory jack
IMPACT HD3-I3	Professional grade speaker mic, water resistant, 3.5mm accessory jack
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug
Otto V1-EH22R131	D-hanger style piece to use with Otto speaker mics - right angle plug
Otto V2-10288	Evolution heavy duty speaker mic
Otto V2-L2CS11	Profile speaker mic
Otto V2-C2CS11	Legacy speaker mic
SP-13	Earphone for handhelds
Wire Kits	
HM-153L	Heavy duty earphone-mic - two screw connector Compact microphone with PTT switch clips to your lapel
HM-166L	Earphone microphone - medium duty
Otto V1-10515	Barrel PTT to use with headsets with pigtails
Otto V1-10519	80mm body PTT to use with headsets with pigtails
Otto V1-10756	2 wire palm Mic Kit - 2.5/3.5mm right angle
Otto E1-EB2CC131	1-wire earbud with in-line mic/PTT
Otto E1-ET2CS131	2-wire D-hanger with in-line mic/PTT
Otto E1-EB2CS131	2-wire earbud palm mic kit

F3021 - F4021 Series

Advanced Portables

VERSIONS

VHF No keypad
- F3021S 41 136-174 MHz

VHF with DTMF keypad
- F3021T 01 136-174 MHz

UHF No keypad
- F4021S 41 400-470 MHz
- F4021S 42 450-512 MHz

UHF with DTMF keypad
- F4021T 01 400-470 MHz
- F4021T 02 450-512 MHz

SPECS & FEATURES

Output Power:	5W (VHF); 4W (UHF)
Channels:	128
Channel Spacing:	12.5 / 25kHz switchable
PLL Chnl Spacing:	2.5, 3.125kHz
LCD Display:	8 character alphanumeric
Programmable Keys:	8
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Programmable:	PC with CSF3021/F5021/F5011 software
Weight:	10.6oz (with BP-232N)
Other Features:	IP54 dust protected & splash proof TOT function & lock out penalty timer 2-step power save Surveillance function; temporary LED backout 500mW loud and clear audio

ENCRYPTION

Simple Inversion:	UT-109R 32 Codes
Rolling Code:	UT-110R 1020 Codes

SIGNALING

CTCSS / DTCS
DTMF Encode
DTMF Decode (UT-108R)
2/5 Tone Encode/Decode
MDC1200

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-232N)
Belt Clip (MB-94)
Owners manual

WARRANTY

2-Year

IP54 DUST PROTECTION & SPLASH PROOF

Meets MIL-STD 810

OTTO ACCESSORIES AVAILABLE

MDC 1200 Compatible

F3021 - F4021 Series

Configurations

Model	Description
F3021S 41	136 - 174 MHz, 12.5/25 kHz Channel Spacing, no keypad, MDC1200
F3021S 41 DTC	With BC-171 01 drop-in trickle charger
F3021S 41 RC	With BC-160 01 rapid charger
F4021S 41	400 - 470 MHz, 12.5/25 Channel Spacing, no keypad, MDC1200
F4021S 41 DTC	With BC-171 01 drop-in trickle charger
F4021S 41 RC	With BC-160 01 rapid charger
F4021S 42	450 - 512 MHz, 12.5/25kHz Channel Spacing, no keypad, MDC1200
F4021S 42 DTC	With BC-171 01 drop-in trickle charger
F4021S 42 RC	With BC-160 01 rapid charger
F3021T 01	136 - 174 MHz, 12.5/25 kHz Channel Spacing, keypad, MDC1200
F3021T 01 DTC	With BC-171 01 drop-in trickle charger
F3021T 01 RC	With BC-160 01 rapid charger
F4021T 01	400 - 470 MHz, 12.5/25 Channel Spacing, keypad, MDC1200
F4021T 01 DTC	With BC-171 01 drop-in trickle charger
F4021T 01 RC	With BC-160 01 rapid charger
F4021T 02	450 - 512 MHz, 12.5/25kHz Channel Spacing, keypad, MDC1200
F4021T 02 DTC	With BC-171 01 drop-in trickle charger
F4021T 02 RC	With BC-160 01 rapid charger

Accessories

Model	Description
Antennas	
CEN EXD 400 MXI	Stubby antenna 400-430
CEN EXD 400 MXI Upg	Pull standard antenna and sub CEN EXD 400 MXI
FA-SC25U	Flexible antenna for 400-430MHz UHF (Green tip)
FA-SC25V	Flexible antenna for 136-155MHz VHF (Blue tip)
FA-SC55V	Flexible antenna for 146-174MHz VHF (Std VHF - Red tip)
FA-SC57U	Flexible antenna for 430-470MHz UHF (Std UHF - Red tip)
FA-SC72U	Flexible antenna for 470-520MHz UHF (Blue tip)
FA-SC56VS	Stubby antenna 150-160MHz (red ring)
FA-SC56VS Upgrade	Pull standard antenna and sub FA-SC56US
FA-SC57VS	Stubby antenna 160-174MHz (green ring)
FA-SC57VS Upgrade	Pull standard antenna and sub FA-SC57US
FA-SC73US	Stubby antenna 450-470MHz (red ring)
FA-SC73US Upgrade	Pull standard antenna and sub FA-SC73US
FA-SC61UC	380-512MHz cut antenna to frequency needed
FA-SC61UC Upgrade	Pull standard antenna and sub FA-SC61UC
FA-SC61VC	136-174MHz cut antenna to frequency needed
FA-SC61VC Upgrade	Pull standard antenna and sub FA-SC61VC
Batteries	
BP-232N	7.2V/2000mAh Li-ion battery (15.5 hours) std battery
BP-240	Alkaline battery case fits 6 AAA batteries (1W output power)
Belt Clips	
MB-93	Swivel belt clip
MB-94	Alligator belt clip (standard belt clip)
MB-96N	Swivel leather belt hanger. Use with MB-93
MB-96F	Fixed leather belt hanger. Use with MB-94.

F3021 - F4021 Series

Accessories Continued

Model	Description
Cables	
CP-17L	Cigarette lighter cable
OPC-515L	DC power cable - for use with RC (12-16V DC req.)
OPC-656	DC power cable - for use with BC-121N (12-16V DC req.)
Cases	
LC-F3021S CLIP	Leather case with a clip for non keypad version
LC-F3021S LOOP	Leather case with a loop for non keypad version
LC-F3021S SWIVEL	Leather case with a swivel for non keypad version
LC-F3021T CLIP	Leather case with a clip for keypad version
LC-F3021T SWIVEL	Leather case with a swivel for keypad version
NC-F3021S CLIP	Nylon case with a clip for non keypad version
NC-F3021S LOOP	Nylon case with a loop for non keypad version
NC-F3021T CLIP	Nylon case with a clip for keypad version
Chargers	
AD-106	Adapter cup for BC119N rapid charger & BC-121 6 unit multi charger
AD-122	Adapter cup for BC-197 gang charger for BP-232 radios
BC-119N 01	117V Desktop rapid charger (BC-145 included; requires AD-106)
BC-119N 02	220V Desktop rapid charger (BC-145 included; requires AD-106)
BC-121N	Multi-Unit (6) Desktop Chgr (BC-157 & AD-106 adapter cups req.)
BC-121NAD106	BC121 + BC157S 07 + (6) AD-106 Multi-Unit Charger Kit
BC-121NAD106 220V	BC121 + BC157S 09 + (6) AD-106 Multi-Unit Charger Kit
BC-145SA 31	117V AC adapter for BC-160/BC-119N (included with rapid charger)
BC-145SE 32	220V AC adapter for BC-160/BC-119N (included with rapid charger)
BC-147SA 31	117V AC adapter for BC-171
BC-147SE 32	220V AC adapter for BC-171
BC-157S 07	117V power supply for the BC-121N gang charger
BC-157S 09	220V power supply for the BC-121N gang charger
BC-160 01	117V Desktop Rapid Charger (BC-145SA included)
BC-160 02	220V Desktop Rapid Charger (BC-145SE included)
BC-171 01	117V drop-in trickle charger (BC-147SA included)
BC-171 02	220V drop-in trickle charger (BC-147SE included)
BC-197 22	110V gang charger for radios with the BP-232N battery
BC-197 23	220V gang charger for radios with the BP-232N battery
IA-TC100B	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L
Extended Warranty	
EXTWARR211	1 year extended warranty for a total of 3 years
EXTWARR212	2 year extended warranty for a total of 4 years
EXTWARR213	3 year extended warranty for a total of 5 years
Headsets	
HS-94	Ear-piece type headset for VS-1L
HS-95	Headset with boom mic for VS-1L
HS-97	Earphone with throat mic for VS-1L
VS-1L	VOX/PTT unit (requires headset)
Otto V4-10479	Lightweight single speaker headset w./in-line PTT
Otto V4-BA2CS1	Breeze behind-the-head headset, single speaker, left boom mic, std PTT
Otto V4-BA2CS5	Breeze behind-the-head headset, single speaker, left boom mic, mini PTT
Otto V4-BA2CS3B	Breeze w/in-line PTT, w/pigtail for remote PTT
Otto V4-EX2CS5	Explorer, lightweight, flexible earloop w/boom mic, quick disconnect
Otto V4-HN2C3B	Hurricane behind the head w/in-line PTT w/pitgtail jack for remote PTT options

F3021 - F4021 Series

Accessories Continued

Model	Description
Internal Modules	
UT-108R	DTMF decoder
UT-109R	Non-rolling voice scrambler. Up to 32 codes available (not compatible with UT-110)
UT-110R	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) code
UT-124R	Man down unit
Installation Charges	
INSTALLLM1234	Install board into radio for 1-24 radios, 25-49 radios or 50+ radios
Manuals	
98815180	Owners Manual
97715148	Service Manual
94415147	CD Service Manual
Programming	
CSF3021/F5021/F5011	Programming software
OPC-478	Programming Cloning Cable for PC to Radio with RC232S
OPC-478UC	Programming Cloning Cable for PC to Radio with USB connector
PROGLM1234	Programming for 1-24 radios, 25-49 radios or 50+ radios
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI2	Cable for RedHawk mic with 2-in connector
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One pe customer needed.
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone
Speaker Microphones & Earpieces	
HM-158L LG	Speaker microphone with compact & durable body. Equipped with an earphone jack and a revolving clip
HM-159L LG	Heavy duty speaker microphone with metal alligator clip and screw down L-shape connector
IMPACT HD1-I3	Compact lightweight speaker mic, splash proof, 3.5mm accessory jac
IMPACT HD3-I3	Professional grade speaker mic, water resistant, 3.5mm accessory jac
Otto V1-EH22R131	D-hanger style piece to use with Otto speaker mics - right angle plug
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug
Otto V2-10288	Evolution heavy duty speaker mic
Otto V2-L2CS11	Profile speaker mic
Otto V2-C2CS11	Legacy speaker mic
SP-13	Earphone for handhelds
Wire Kits	
HM-153L	Heavy duty earphone-mic - two screw connector Compact microphone with PTT switch clip to your lapel
HM-166L	Earphone microphone - medium duty
Otto E1-EB2CC131	1-wire earbud with in-line mic/PTT
Otto E1-ET2CS131	2-wire D-hanger with in-line mic/PTT
Otto E1-EB2CS131	2-wire earbud palm mic kit
Otto V1-10515	Barrel PTT to use with headsets with pigtails
Otto V1-10519	80mm body PTT to use with headsets with pigtails

F3031S - F4031S Series

Submersible Portables

VERSIONS

VHF No keypad

F3031S 81	136-174 MHz 12.5 kHz

UHF No keypad

F4031S 72	400-470 MHz 12.5 kHz
F4021S 73	450-512 MHz 12.5 kHz

SPECS & FEATURES

Output Power:	5W (VHF); 4W (UHF)
Channels:	128 / 8 zones
Channel Spacing:	12.5 kHz switchable
PLL Chnl Spacing:	2.5/3.125kHz
LCD Display:	8 character alphanumeric
Programmable Keys:	8
Mil Spec:	810 C, D, E, F & G
Scan:	Normal & priority
Programmable:	PC with CSF3021 software
Weight:	10.9oz (with BP-232WP)
Other Features:	IP67 Submersible and dust-tight MDC1200 signalling Emergency function Man down (UT-124R) Lone worker function

ENCRYPTION

Simple Inversion:	UT-109R 32 Codes
Rolling Code:	UT-110R 1020 Codes

SIGNALING

CTCSS/DCS encode/decode
DTMF decode (UT-108R)
2/5 tone encode/decode, standard
MDC1200

COMES WITH

Antenna (FA-SC55V) or (FA-SC57U)
Battery (BP-232WP)
Belt clip (MB-94)
Owners manual

WARRANTY

2-Year

Meets MIL-STD 810 IP67 MDC 1200 Compatible

F33G - F43G Series

Advanced Portables

VERSIONS

VHF No Keypad
- F33GS 56 136-174 MHz

VHF With DTMF Keypad
- F33GT 06 136-174 MHz

UHF No Keypad
- F43GS 91 400-470 MHz
- F43GS 82 450-512 MHz

UHF With DTMF Keypad
- F43GT 41 400-470 MHz
- F43GT 32 450-512 MHz

SPECS & FEATURES

Output Power:	5W (VHF); 4W (UHF)
Channels:	256
Channel Spacing:	12.5 / 25kHz switchable
PLL Chnl Spacing:	2.5, 3.125kHz
Display:	LCD 14 segment, 8-character alphanumeric
Programmable Keys:	8
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Programmable:	PC with CSF33G software
Weight:	9.2oz (with BP-231)
Other Features:	Side mount speaker mic jack Die cast aluminum chassis Emergency call Companded audio

SIGNALING

CTCSS / DCS / DTMF Encode/Decode
2/5 Tone Encode/Decode
DTMF ANI
MDC1200

ENCRYPTION

Simple Inversion:	Built-In
Rolling Code:	UT-110 02 1020 Codes

F33G - F43G Series

Configurations

Model	Description
F33GS 56	136 - 174 MHz, 12.5/25 kHz Channel Spacing, 16 channels, BP-232N
F33GS 56 DTC	Radio with BC-171 01 drop-in trickle charger (includes BC-147SA 11)
F33GS 56 RC	Radio with BC160 rapid charger in the box
F43GS 82	450 - 512 MHz, 12.5/25 kHz Channel Spacing, 16 channels, BP-232N
F43GS 82 DTC	Radio with BC-171 01 drop-in trickle charger (includes BC-147SA 11)
F43GS 82 RC	Radio with BC160 rapid charger in the box

Accessories

Model	Description
Antennas	
CEN EXD 400 MXI	Stubby antenna 400-430
CEN EXD 400 MXI Upg	Pull standard antenna and sub CEN EXD 400 MXI
FA-SC25U	Flexible antenna for 400-430MHz UHF (Green tip)
FA-SC25V	Flexible antenna for 136-155MHz VHF (Blue tip)
FA-SC55V	Flexible antenna for 146-174MHz VHF (Red tip)
FA-SC57U	Flexible antenna for 430-470MHz UHF (Red tip)
FA-SC72U	Flexible antenna for 470-520MHz UHF (Blue tip)
FA-SC56VS	Stubby antenna 150-160MHz (red ring)
FA-SC56VS Upg	Pull standard antenna and sub FA-SC56US
FA-SC57VS	Stubby antenna 160-174MHz (green ring)
FA-SC57VS Upg	Pull standard antenna and sub FA-SC57US
FA-SC73US	Stubby antenna 450-470MHz (red ring)
FA-SC73US Upg	Pull standard antenna and sub FA-SC73US
FA-SC61UC	380-512MHz cut antenna to frequency needed
FA-SC61UC Upg	Pull standard antenna and sub FA-SC61UC
FA-SC61VC	136-174MHz cut antenna to frequency needed
FA-SC61VC Upg	Pull standard antenna and sub FA-SC61VC
Batteries	
BP-232N	7.4V Li-ion 2000mAh typical capacity & 1900mAh minimum value battery
BP-240	Alkaline battery case fits 6 AAA batteries (1W output power)
Belt Clips	
MB-93	Swivel belt clip
MB-94	Alligator belt clip (standard belt clip)
MB-96N	Swivel leather belt hanger. Use with MB-93.
MB-96F	Fixed leather belt hanger. Use with MB-94.
Cables	
CP-17L	Cigarette lighter cable
OPC-515L	DC power cable - for use with BC-119N (12-16V DC req.)
OPC-656	DC power cable - for use with BC-121N (12-16V DC req.)
Cases	
LC-F33 CLIP	Leather Case with a clip
LC-F33 SWIVEL	Leather Case with a swivel
Chargers	
AD-106	Adapter cup for BC119N rapid charger & BC-121 6 unit multi charger
AD-122	Adapter cup for BC-197 gang charger for BP-232 radios
BC-119N 01	117V Desktop rapid charger (BC-145 included; requires AD-106)
BC-119N 02	220V Desktop rapid charger (BC-145 included; requires AD-106)
BC-121N	Multi-Unit (6) Desktop Chgr (BC-157 & AD-106 adapter cups req.)

F33G - F43G Series

Accessories Continued

Model	Description
Chargers Continued	
BC-121NAD106	BC121 + BC157S 07 + (6) AD-106 Multi-Unit Charger Kit
BC-121NAD106 220V	BC121 + BC157S 09 + (6) AD-106 Multi-Unit Charger Kit
BC-145SA 31	117V AC adapter for BC-160/BC-119N (included with rapid charger)
BC-145SE 32	220V AC adapter for BC-160/BC-119N (included with rapid charger)
BC-147SA 31	117V AC adapter for BC-171
BC-147SE 32	220V AC adapter for BC-171
BC-157S 07	117V power supply for the BC-121N gang charger
BC-157S 09	220V power supply for the BC-121N gang charger
BC-160 01	117V Desktop Rapid Charger (BC-145SA included)
BC-160 02	220V Desktop Rapid Charger (BC-145SE included)
BC-171 01	117V drop-in trickle charger (BC-147SA included)
BC-171 02	220V drop-in trickle charger (BC-147SE included)
BC-197 22	110V gang charger for radios with the BP-232N battery
BC-197 23	220V gang charger for radios with the BP-232N battery
IA-TC100B	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L
Extended Warranty	
EXTWARR211	1 year extended warranty for a total of 3 years
EXTWARR212	2 year extended warranty for a total of 4 years
EXTWARR213	3 year extended warranty for a total of 5 years
Headsets	
HS-94	Ear-piece type headset for VS-1L
HS-95	Headset with boom mic for VS-1L
HS-97	Earphone with throat mic for VS-1L
VS-1L	VOX/PTT unit (requires headset)
Otto V4-10479	Lightweight single speaker headset w/in-line PTT
Otto V4-BA2CS1	Breeze behind-the-head headset, single speaker, left boom mic, std PTT
Otto V4-BA2CS5	Breeze behind-the-head headset, single speaker, left boom mic, mini PTT
Otto V4-BA2CS3B	Breeze w/in-line ptt, w/pigtail for remote PTT
Otto V4-EX2CS5	Explorer, lightweight, flexible earloop w/boom mic, quick disconnect
Otto V4-HN2C3B	Hurricane behind the head w/in-line ptt w/pitgtail jack for remote PTT options
Internal Modules	
UT-108	DTMF decoder
UT-109 01	Non-rolling voice scrambler. Up to 32 codes available (not compatible with UT-110)
UT-110 01	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes
UT-124	Man down unit
Installation Charges	
INSTALLLM1234	Install board into radio for 1-24 radios, 25-49 radios or 50+ radios
Manuals	
98814817	Owners Manual
97714843	F43G service manual
97714895	F33G service manual
94414845	F33G/43G CD service manual
Programming	
CS-F33G	Programming Windows Software
OPC-478	Programming Cloning Cable for PC to Radio with RC232S
OPC-478UC	Programming Cloning Cable for PC to Radio with USB connector
PROGLM1234	Programming for 1-24 radios, 25-49 radios or 50+ radios

F33G - F43G Series

Accessories Continued

Model	Description
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI2	Cable for RedHawk mic with 2-in connector
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone
Speaker Microphones & Earpieces	
HM-158L LG	Speaker microphone with compact & durable body. Equipped with an earphone jack and a revolving clip
HM-159L LG	Heavy duty speaker microphone with metal alligator clip and screw down L-shape connector
IMPACT HD1-I3	Compact lightweight speaker mic, splash proof, 3.5mm accessory jack
IMPACT HD3-I3	Professional grade speaker mic, water resistant, 3.5mm accessory jack
Otto V1-EH22R131	D-hanger style piece to use with Otto speaker mics - right angle plug
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug
Otto V2-10288	Evolution heavy duty speaker mic
Otto V2-L2CS11	Profile speaker mic
Otto V2-C2CS11	Legacy speaker mic
SP-13	Earphone for handhelds
Wire Kits	
HM-153L	Heavy duty earphone-mic - two screw connector. Compact microphone with PTT switch clips to your lapel
HM-166L	Earphone microphone - medium duty
Otto E1-EB2CC131	1-wire earbud with in-line mic/PTT
Otto E1-ET2CS131	2-wire D-hanger with in-line mic/PTT
Otto E1-EB2CS131	2-wire earbud palm mic kit
Otto V1-10515	Barrel PTT to use with headsets with pigtails
Otto V1-10519	80mm body PTT to use with headsets with pigtails

F50/F60 - F50V/F60V Series

Submersible Portables

VERSIONS

VHF	F50V 01	136-174 MHz
UHF	F60V 01	400-470 MHz
	F60V 16	450-512 MHz

VOICE & VIBRATE VERSIONS

VHF	F50V 11	136-174 MHz
UHF	F60V 11	400-470 MHz
	F60V 18	450-512 MHz

SCRAMBLER INSTALLED

Built-In UT-110 Voice Scrambler

F50 31	136-174 MHz

I.S. INTRINSICALLY SAFE VERSIONS

Built-In UT-110 Voice Scrambler

F50 81	136-174 MHz
F60 81	400-470 MHz
F60 82	450-512 MHz

SPECS & FEATURES

Output Power:	4W (UHF); 5W (VHF)
Channels:	128 With 8 memory banks
Channel Spacing:	12.5 / 25kHz
PLL Chnl Spacing:	2.5/3.125kHz 5/6.25kHz
LCD Display:	8 Character
Programmable Keys:	7
Mil Spec:	810 C, D, E
Scan:	Normal & Priority
Programmable:	PC with CSF50 or CSF50V software
Weight:	9.9oz

Other Features:
IPX7 Submersible (non V versions)
IP57 Submersible & dust protected (V versions)
2-Step power save

F50V/F60V Features:
700mW AF power w/ BTL amplifier
Lone worker function
Low battery beep
17 scanning list memories
Surveillance function

Voice/Vibrate Features:
Vibration alert function
8 Minute voice recorder

SIGNALING

CTCSS / DTCS Encode/Decode
Built-In 2-Tone, 5-Tone
MDC1200

COMES WITH

Antenna (FA-S59V or FA-S56U)
Battery (BP-227 or BP-227FM)
Belt Clip (MB-98)
Owners manual

WARRANTY

2-Year

ENCRYPTION

Inversion scrambler built-in on all version
Rolling code: Built-in on specific versions

MDC 1200 Compatible

FM APPROVED AVAILABLE

IPX7

Meets MIL-STD 810

OTTO ACCESSORIES AVAILABLE

IP57 SUBMERSIBLE & DUST PROTECTED

F50/F60 - F50V/60V Series

Configurations

Model	Description
F50V 01	136 -174 MHz, BTL Audio, 128 Channels
F50V 01 DTC	With BC-152 01 Drop-In Trickle Charger & BC-147 AC Adapter
F50V 01 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)
F50V 01 RC	With BC-119N 51 Rapid Charger (includes AD-100 adapter cup)
F60V 01	400-470 MHz, BTL audio, 128 Channels
F60V 01 DTC	With BC-152 01 Drop-In Trickle Charger & BC-147 AC Adapter
F60V 01 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)
F60V 01 RC	With BC-119N 51 Rapid Charger (includes AD-100 adapter cup)
F60V 16	450-512 MHz, BTL audio, 128 Channels
F60V 16 DTC	With BC-152 01 Drop-In Trickle Charger & BC-147 AC Adapter
F60V 16 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)
F60V 16 RC	With BC-119N 51 Rapid Charger (includes AD-100 adapter cup)

Scrambler Installed (UT-109/110) Configurations

Model	Description
F50 31	136 -174 MHz, 12.5/25 kHz Channel Spacing, 128 Channels, MDC1200
F50 31 DTC	With BC-152 01 Drop-In Trickle Charger & BC-147 AC Adapter
F50 31 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)
F50 31 RC	With BC-119N 51 Rapid Charger (includes AD-100 adapter cup)

Intrinsically Safe (I.S) Configurations

Model	Description
F50 81	136 -174 MHz, 12.5/25 kHz Channel Spacing, 128 Channels, MDC1200
F50 81 DTC	With BC-152 01 Drop-In Trickle Charger & BC-147 AC Adapter
F50 81 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)
F50 81 RC	With BC-119N 51 Rapid Charger (includes AD-100 adapter cup)
F60 81	400-470 MHz, 12.5/25 kHz Channel Spacing, 128 Channels, MDC1200
F60 81 DTC	With BC-152 01 Drop-In Trickle Charger & BC-147 AC Adapter
F60 81 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)
F60 81 RC	With BC-119N 51 Rapid Charger (includes AD-100 adapter cup)
F60 82	450-512 MHz, 12.5/25 kHz Channel Spacing, 128 Channels, MDC1200
F60 82 DTC	With BC-152 01 Drop-In Trickle Charger & BC-147 AC Adapter
F60 82 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)
F60 82 RC	With BC-119N 51 Rapid Charger (includes AD-100 adapter cup)

Voice & Vibrate Configurations

Model	Description
F50V 11	136-174 MHz, BTL audio, voice, vibrate,128 Channels, waterproof
F50V 11 DTC	With BC-152 01 Drop-In Trickle Charger & BC-147 AC Adapter
F50V 11 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)
F50V 11 RC	With BC-119N 51 Rapid Charger (includes AD-100 adapter cup)
F60V 11	400-470 MHz, BTL audio, voice, vibrate, 128 Channels, waterproof
F60V 11 DTC	With BC-152 01 Drop-In Trickle Charger & BC-147 AC Adapter
F60V 11 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)
F60V 11 RC	With BC-119N 51 Rapid Charger (includes AD-100 adapter cup)
F60V 18	450-512 MHz, BTL audio, voice, vibrate, 128 Channels, waterproof
F60V 18 DTC	With BC-152 01 Drop-In Trickle Charger & BC-147 AC Adapter
F60V 18 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)
F60V 18 RC	With BC-119N 51 Rapid Charger (includes AD-100 adapter cup)

F50/F60 - F50V/60V Series

Accessories

Model	Description
Antennas	
CEN EXD 400 SMI	Stubby antenna 400-420MHz
CEN EXD 450 SMI	Stubby antenna 450-470MHz
CEN EXD 470 SMI	Stubby antenna 470-512MHz
CEN EXS 136 SMI	Stubby antenna 136-150MHz
CEN EXS 150 SMI	Stubby antenna 150-160MHz
CEN EXS 160 SMI	Stubby antenna 160-174MHz
FA-S24V	Flexible antenna for 136-150 MHz VHF (blue tip)
FA-S59V	Flexible antenna for 150-174 MHz VHF (red tip)
FA-S27U	Flexible antenna for 400-470 MHz UHF (green tip)
FA-S56U	Flexible antenna for 450-512 MHz UHF (red tip)
FA-S74U	Flexible antenna for 470-520 MHz UHF (blue tip)
FA-S57US	Stubby antenna 450-490MHz 2.75" long (red tip)
FA-S62VS	Stubby antenna 150-162MHz 3.5" long (red tip)
FA-S63VS	Stubby antenna 160-174MHz 3.5" long (green tip)
antenna upgrades available for pull/swap - just make sure you add it to your PO clearly	
Batteries	
BP-226	Alkaline battery case (holds 5 AA batteries)
BP-226 Sub	Sub standard battery with the BP-226
BP-227	7.2V/1700mAh Li-ion battery pack
BP-227FM	Intrinscially safe 7.2V/1700mAh Li-ion battery pack
Belt Clips	
MB-86	Swivel belt clip
MB-98	Standard belt clip
MB-96N	Swivel leather belt hanger. Use with MB-98
MB-96F	Fixed leather belt hanger. Use with MB-98
Cables	
CP-17L	Cigarette lighter plug-in cord for chargers
OPC-515L	DC power cable for BC152 or BC119N
Cases	
AW F50 Area 51	Durable water resistant case with a unique swivel clip included
AW F50 STUD	Stud that screws into the battery clip connection point
AW SWIVEL	Swivel belt clip to attach with AW cases and Stud
AW F50 Stud/Swivel Kit	Stud and swivel together in a kit
LC-F50 LOOP	Leather Case for the F50V/F60V with a loop
LC-F50 CLIP	Leather Case for the F50V/F60V with a clip
LC-F50 SWIVEL	Leather Case for the F50V/F60v with a swivel
NC-M88	Nylon Carrying case with a clip
Chargers	
AD-100	Adapter cup for BC119N & BC-121N
BC-119N 01	117V desktop rapid charger, adapter cup required
BC-119N 02	220V desktop rapid charger, adapter cup required
BC-119N 51	BC119N plus AD100 already installed
BC-121N	Multi-Unit (6) Charger (BC-157 & adapter cups required)
BC-121NF50	BC121 + BC157 02 + (6) AD-100 Multi-Unit Charger Kit
BC-121NF50 220V	BC121 + BC157 04 + (6) AD-100 Multi-Unit Charger Kit
BC-145SA 31	117V AC adapter for BC-119N (included with BC-119N)
BC-145SE 32	220V AC adapter for BC-119N (included with BC-119N 02)
BC-147SA 14	117V AC adapter for BC-152

F50/F60 - F50V/60V Series
Accessories Continued

Model	Description
Chargers Continued	
BC-147SE 15	220V AC adapter for BC-152
BC-152 01	Drop-in trickle charger, 9-10 hours charging time (use w/BC-147)
BC-157S 07	117V AC Power Supply for the BC-121 multi-unit charger
BC-157S 09	220V AC Power Supply for the BC-121 multi-unit charger
BC-190 01	Sensing charger that recharges battery even after charging is finished
Extended Warranty	
EXTWARR211	1 year extended warranty for a total of 3 years
EXTWARR212	2 year extended warranty for a total of 4 years
EXTWARR213	3 year extended warranty for a total of 5 years
Headsets	
HS-94	Ear-piece type headset for VS-1SC
HS-95	Headset with boom mic for VS-1SC
HS-97	Earphone with throat mic for VS-1SC
VS-1SC	PTT unit, no VOX circuit inside
Otto V4-10514	Lightweight single speaker headset w/in-line PTT
Otto V4-BA2CM1	Breeze behind-the-head headset, single speaker, w/left boom
Otto V4-EX2CM1	Explorer, lightweight, flexible earloop w/boom mic
Otto V4-HC2CM1	Hurricane, lightweight, dual ear, behind-the-head headset
Otto V4-10469-S	Intrinsically safe over-the-head, noise attenuating headsets
Otto V4-10470-S	Intrinsically safe behind-the-head style, noise attenuating headset
Manuals	
94414804	F50 CD service manual
94415358	F50V CD service manual
97714806	F50 service manual
97714811	F60 service manual
97715317	F50V service manual
97715356	F60V service manual
98814809	F50/60 owners manual
98815318	F50V/60V owners manual
Programming	
CS-F50	Programming windows software
CS-F50V	Programming windows software
OPC-966	Programming cloning cable with RC-232S connector
OPC-966U	Programming cloning cable with USB connector
PROGLM1234	Programming for 1-24 radios, 25-49 radios or 50+ radios
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI9	Cable for RedHawk mic with 9-pin connector
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables

F50/F60 - F50V/60V Series
Accessories Continued

Model	Description
Speaker Microphones & Earpieces	
HM-138	IP-X7 (JIS-7) level waterproof speaker mic
HM-169	IP-X7 level waterproof speaker mic w/longer belt clip
HM-169 IS	Intrinsically safe IP-X7 level waterproof speaker mic w/longer belt clip
IMPACT HD1-I5	Compact lightweight speaker mic, splash proof, 3.5mm accessory jack
IMPACT HD3-I5	Professional grade speaker mic, water resistant, 3.5mm accessory jack
Otto V1-10515	Barrel PTT to use with headsets with pigtails
Otto V1-10519	80mm body PTT to use with headsets with pigtails
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug
Otto V2-G2CM211	Genesis waterproof speaker mic w/removable grill
Otto V2-10315	H2O Evolution style speaker mic immersion rated (IP68)
Otto V2-10314	Evolution heavy duty speaker mic
Otto V2-L2CM11	Profile speaker mic
Otto V2-10273-S	Intrinsically safe H2O Evolution style speaker mic immersion rated (IP68)
Otto V2-10274-S	Intrinsically safe evolution heavy duty speaker mic
Otto V1-10822	2-wire palm mic kit (black)

F3161 - F4161 Series
F3161D - F4161D Series

Analog, LTR®, Digital or PassPort® Portables

Non-“D” Means IDAS Upgradable / “D” Signifies IDAS Ready

VERSIONS

VHF 5W, No keypad

F3161S	136-174 MHz
F3161DS	136-174 MHz

VHF 5W, with DTMF keypad

F3161T	136-174 MHz
F3161DT	136-174 MHz

UHF 5W, No keypad

F4161S	400-470 or 450-512 MHz
F4161DS	400-470 or 450-512 MHz

UHF 5W, with DTMF keypad

F4161T	400-470 or 450-512 MHz
F4161DT	400-470 or 450-512 MHz

SPECS & FEATURES

Output Power:	5W (VHF); 5W (UHF)
Channels:	512
Channel Spacing:	12.5 / 25kHz Switchable & 6.25kHz opt
PLL Chnl Spacing:	2.5 / 3.125kHz
LCD Display:	Full dot-matrix
Programmable Keys:	8
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Programmable:	PC with CSF3161/5061 software
Weight:	12oz (with BP-232N)
Other Features:	Basic LTR®/Conventional mixed mode
	Lone worker function
	Voting mode scanning
	9 pin multi-connector
	Enhanced MDC version available
	Companded audio & VOX
	IDAS Single-site trunking
	MultiTrunk - IDAS multi-site trunking
	IP55 Dust & spraying water protection

DIGITAL IDAS FEATURES

Basic LTR® / Conventional / IDAS mixed mode
IDAS Trunking - single or multisite
6.25kHz Digital channel spacing w/ UT-126 installed

SIGNALING

MDC1200 (analog & LTR)
CTCSS/DCS encode/decode
DTMF decode
2/5 tone encode/decode standard
Enhanced MDC (Optional)
PassPort® (Optional)

ENCRYPTION

Inversion scrambler built-in on all versions
Rolling Code: UT-110R 1020 Codes

COMES IN THE BOX

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-232N)
Belt clip (MB-94)
Owners manual

WARRANTY

3-Year

FM APPROVED AVAILABLE

IP55 DUST & SPRAYING WATER PROTECTION

Meets MIL-STD 810

OTTO ACCESSORIES AVAILABLE

MDC 1200 Compatible

MULTITRUNK

iDAS™

F3161 - F4161 Series

Analog/LTR® Configurations

Model	Description
F3161S 51	136 - 174 MHz, no keypad, no 6.25 board included
F3161S 51 DTC	Radio with BC-171 01 drop-in trickle charger
F3161S 51 RC	Radio with BC-160 01 rapid charger
F4161S 51	400 - 470 MHz,no keypad, no 6.25 board included
F4161S 51 DTC	Radio with BC-171 01 drop-in trickle charger
F4161S 51 RC	Radio with BC-160 01 rapid charger
F4161S 56	450 - 512 MHz, no keypad, no 6.25 board included
F4161S 56 DTC	Radio with BC-171 01 drop-in trickle charger
F4161S 56 RC	Radio with BC-160 01 rapid charger
F3161T 41	136 - 174 MHz, keypad, no 6.25 board included
F3161T 41 DTC	Radio with BC-171 01 drop-in trickle charger
F3161T 41 RC	Radio with BC-160 01 rapid charger
F4161T 41	400 - 470 MHz, keypad, no 6.25 board included
F4161T 41 DTC	Radio with BC-171 01 drop-in trickle charger
F4161T 41 RC	Radio with BC-160 01 rapid charger
F4161T 46	450 - 512 MHz, keypad, no 6.25 board included
F4161T 46 DTC	Radio with BC-171 01 drop-in trickle charger
F4161T 46 RC	Radio with BC-160 01 rapid charger

Analog/LTR® with EMDC Configurations

Model	Description
F3161S 51 EMDC	136 - 174 MHz,no keypad, no 6.25 board included
F3161S 51 DTC EMDC	Radio with BC-171 01 drop-in trickle charger
F3161S 51 RC EMDC	Radio with BC-160 01 rapid charger
F4161S 51 EMDC	400 - 470 MHz,no keypad, no 6.25 board included
F4161S 51 DTC EMDC	Radio with BC-171 01 drop-in trickle charger
F4161S 51 RC EMDC	Radio with BC-160 01 rapid charger
F4161S 56 EMDC	450 - 512 MHz, no keypad, no 6.25 board included
F4161S 56 DTC EMDC	Radio with BC-171 01 drop-in trickle charger
F4161S 56 RC EMDC	Radio with BC-160 01 rapid charger
F3161T 41 EMDC	136 - 174 MHz, keypad, no 6.25 board included
F3161T 41 DTC EMDC	Radio with BC-171 01 drop-in trickle charger
F3161T 41 RC EMDC	Radio with BC-160 01 rapid charger
F4161T 41 EMDC	400 - 470 MHz, keypad, no 6.25 board included
F4161T 41 DTC EMDC	Radio with BC-171 01 drop-in trickle charger
F4161T 41 RC EMDC	Radio with BC-160 01 rapid charger
F4161T 46 EMDC	450 - 512 MHz, keypad, no 6.25 board included
F4161T 46 DTC EMDC	Radio with BC-171 01 drop-in trickle charger
F4161T 46 RC EMDC	Radio with BC-160 01 rapid charger

F3161D - F4161D Series

Analog/LTR®/IDAS™ Digital Configurations

Model	Description
F3161DS 71	136-174 MHz, Analog, LTR, 6.25 digital, no keypad, UT126 installed
F3161DS 71 DTC	Radio with BC-171 01 drop-in trickle charger
F3161DS 71 RC	Radio with BC-160 01 rapid charger
F4161DS 71	400-470 MHz, Analog, LTR, 6.25 digital, no keypad, UT126 installed
F4161DS 71 DTC	Radio with BC-171 01 drop-in trickle charger
F4161DS 71 RC	Radio with BC-160 01 rapid charger
F4161DS 76	450-512 MHz, Analog, LTR, 6.25 digital, no keypad, UT126 installed
F4161DS 76 DTC	Radio with BC-171 01 drop-in trickle charger
F4161DS 76 RC	Radio with BC-160 01 rapid charger
F3161DT 61	136-174 MHz, Analog, LTR, 6.25 digital, keypad, UT126 installed
F3161DT 61 DTC	Radio with BC-171 01 drop-in trickle charger
F3161DT 61 RC	Radio with BC-160 01 rapid charger
F4161DT 61	400-470 MHz, Analog, LTR, 6.25 digital, keypad, UT126 installed
F4161DT 61 DTC	Radio with BC-171 01 drop-in trickle charger
F4161DT 61 RC	Radio with BC-160 01 rapid charger
F4161DT 66	450-512 MHz, Analog, LTR, 6.25 digital, keypad, UT126
F4161DT 66 DTC	Radio with BC-171 01 drop-in trickle charger
F4161DT 66 RC	Radio with BC-160 01 rapid charger

Railroad Ready Configurations

Model	Description
F3161DT 66 RR	136-174 MHz, Analog, 6.25 digital, keypad, MB-94R belt clip & Larsen antenna & RR firmware installed
F3161DT 66 RC RR	Radio with BC-160 01 rapid charger

Analog/LTR®/IDAS™ Digital with EMDC Configurations

Model	Description
F3161DS 71 EMDC	136-174 MHz, Analog, LTR, 6.25 digital, no keypad, UT126 installed
F3161DS 71 DTC EMDC	Radio with BC-171 01 drop-in trickle charger
F3161DS 71 RC EMDC	Radio with BC-160 01 rapid charger
F4161DS 71 EMDC	400-470 MHz, Analog, LTR, 6.25 digital, no keypad, UT126 installed
F4161DS 71 DTC EMDC	Radio with BC-171 01 drop-in trickle charger
F4161DS 71 RC EMDC	Radio with BC-160 01 rapid charger
F4161DS 76 EMDC	450-512 MHz, Analog, LTR, 6.25 digital, no keypad, UT126 installed
F4161DS 76 DTC EMDC	Radio with BC-171 01 drop-in trickle charger
F4161DS 76 RC EMDC	Radio with BC-160 01 rapid charger
F3161DT 61 EMDC	136-174 MHz, Analog, LTR, 6.25 digital, keypad, UT126 installed
F3161DT 61 DTC EMDC	Radio with BC-171 01 drop-in trickle charger
F3161DT 61 RC EMDC	Radio with BC-160 01 rapid charger
F4161DT 61 EMDC	400-470 MHz, Analog, LTR, 6.25 digital, keypad, UT126 installed
F4161DT 61 DTC EMDC	Radio with BC-171 01 drop-in trickle charger
F4161DT 61 RC EMDC	Radio with BC-160 01 rapid charger
F4161DT 66 EMDC	450-512 MHz, Analog, LTR, 6.25 digital, keypad, UT126 installed
F4161DT 66 DTC EMDC	Radio with BC-171 01 drop-in trickle charger
F4161DT 66 RC EMDC	Radio with BC-160 01 rapid charger

F3161/D - F4161/D Series

Analog/LTR® Intrinsically Safe Configurations

Model	Description
F3161S 55	136 - 174 MHz,no keypad, IS,no 6.25 board included
F3161S 55 DTC IS	Radio with BC-171 01 drop-in trickle charger
F3161S 55 RC	Radio with BC-160 01 rapid charger
F4161S 55	400 - 470 MHz,no keypad, IS, no 6.25 board included
F4161S 55 DTC	Radio with BC-171 01 drop-in trickle charger
F4161S 55 RC	Radio with BC-160 01 rapid charger
F4161S 60	450 - 512 MHz, no keypad, IS, no 6.25 board included
F4161S 60 DTC	Radio with BC-171 01 drop-in trickle charger
F4161S 60 RC	Radio with BC-160 01 rapid charger
F3161T 45	136 - 174 MHz, keypad, IS, no 6.25 board included
F3161T 45 DTC	Radio with BC-171 01 drop-in trickle charger
F3161T 45 RC	Radio with BC-160 01 rapid charger
F4161T 45	400 - 470 MHz, keypad, IS, no 6.25 board included
F4161T 45 DTC	Radio with BC-171 01 drop-in trickle charger
F4161T 45 RC	Radio with BC-160 01 rapid charger
F4161T 50	450 - 512 MHz, keypad, IS, no 6.25 board included
F4161T 50 DTC	Radio with BC-171 01 drop-in trickle charger
F4161T 50 RC	Radio with BC-160 01 rapid charger

Analog/LTR®/IDAS™ Digital Intrinsically Safe Configurations

Model	Description
F3161DS 75	136-174 MHz, Analog, IS, LTR, 6.25 digital, no keypad, UT126 installed
F3161DS 75 DTC	Radio with BC-171 01 drop-in trickle charger
F3161DS 75 RC	Radio with BC-160 01 rapid charger
F4161DS 75	400-470 MHz, Analog, IS, LTR, 6.25 digital, no keypad, UT126 installed
F4161DS 75 DTC	Radio with BC-171 01 drop-in trickle charger
F4161DS 75 RC	Radio with BC-160 01 rapid charger
F4161DS 80	450-512 MHz, Analog, IS, LTR, 6.25 digital, no keypad, UT126 installed
F4161DS 80 DTC	Radio with BC-171 01 drop-in trickle charger
F4161DS 80 RC	Radio with BC-160 01 rapid charger
F3161DT 65	136-174 MHz, Analog, IS, LTR, 6.25 digital, keypad, UT126 installed
F3161DT 65 DTC	Radio with BC-171 01 drop-in trickle charger
F3161DT 65 RC	Radio with BC-160 01 rapid charger
F4161DT 65	400-470 MHz, Analog, IS, LTR, 6.25 digital, keypad, UT126 installed
F4161DT 65 DTC	Radio with BC-171 01 drop-in trickle charger
F4161DT 65 RC	Radio with BC-160 01 rapid charger
F4161DT 70	450-512 MHz, Analog, IS, LTR, 6.25 digital, keypad, UT126
F4161DT 70 DTC	Radio with BC-171 01 drop-in trickle charger
F4161DT 70 RC	Radio with BC-160 01 rapid charger

F3161/D - F4161/D Series

Accessories

Model	Description
Antennas	
CEN EXD 400 MXI	Stubby antenna 400-430
FA-SC25U	Flexible antenna for 400-430MHz UHF (Green tip)
FA-SC25V	Flexible antenna for 136-155MHz VHF (Blue tip)
FA-SC55V	Flexible antenna for 146-174MHz VHF (Std VHF - Red tip)
FA-SC56VS	Stubby antenna 150-160MHz (red ring)
FA-SC57U	Flexible antenna for 430-470MHz UHF (Std UHF - Red tip)
FA-SC57VS	Stubby antenna 160-174MHz (green ring)
FA-SC61UC	380-512MHz cut antenna to frequency needed
FA-SC61VC	136-174MHz cut antenna to frequency needed
FA-SC72U	Flexible antenna for 470-520MHz UHF (Blue tip)
FA-SC73US	Stubby antenna 450-470MHz (red ring)
LAIRD EXH 160 MXI	155-165 MHz Unity Gain, 1/4 Wavelength antenna
LARSEN SPHL10160IC	155-165 MHz antenna - standard railroad antenna
antenna upgrades available for pull/swap - just make sure you add it to your PO clearly	
Batteries	
BP-232N	7.2V/2000mAh Li-ion battery (standard battery)
BP-232FM*	7.2V 2000mAh Li-ion battery, IS Approved
BP-240	Alkaline battery case fits 6 AAA batteries (1W output power)
Belt Clips	
MB-93	Swivel belt clip
MB-94	Alligator belt clip (standard belt clip)
MB-94R	Alligator belt clip with a longer clip that angles the antenna/top of radio off the body
MB-96N	Swivel leather belt hanger. Use with MB-93.
MB-96F	Fixed leather belt hanger. Use with MB-94.
Cables	
CP-17L	Cigarette lighter cable
OPC-515L	DC power cable - for use with RC (12-16V DC req.)
OPC-656	DC power cable - for use with BC-121N (12-16V DC req.)
Cases	
LC-F3061S CLIP	Leather case with a clip for non keypad version
LC-F3061S LOOP	Leather case with a loop for non keypad version
LC-F3061S SWIVEL	Leather case with a swivel for non keypad version
LC-F3061T CLIP	Leather case with a clip for keypad version
LC-F3061T SWIVEL	Leather case with a swivel for keypad version
NC-F3061S CLIP	Nylon case with a clip for non keypad version
NC-F3061S LOOP	Nylon case with a loop for non keypad version
NC-F3061T CLIP	Nylon case with a clip for keypad version
NC-F3061T LOOP	Nylon case with a loop for keypad version
Chargers	
AD-106	Adapter cup for BC119N rapid charger & BC-121 6 unit multi charger
AD-122	Adapter cup for BC-197 gang charger for BP-232 radios
BC-119N 01	117V Desktop rapid charger (BC-145 included; requires AD-106)
BC-119N 02	220V Desktop rapid charger (BC-145 included; requires AD-106)
BC-121N	Multi-Unit (6) Desktop Chgr (BC-157 & AD-106 adapter cups req.)
BC-121N AD106	BC121 + BC157S 07 + (6) AD-106 Multi-Unit Charger Kit
BC-121N AD106 220V	BC121 + BC157S 09 + (6) AD-106 Multi-Unit Charger Kit
BC-145SA 31	117V AC adapter for BC-160/BC-119N (included with rapid charger)

F3161/D - F4161/D Series

Accessories Continued

Model	Description
Chargers Continued	
BC-145SE 32	220V AC adapter for BC-160/BC-119N (included with rapid charger)
BC-147SA 31	117V AC adapter for BC-171
BC-147SE 32	220V AC adapter for BC-171
BC-157S 07	117V power supply for the BC-121N gang charger
BC-157S 09	220V power supply for the BC-121N gang charger
BC-160 01	117V Desktop Rapid Charger (BC-145SA included)
BC-160 02	220V Desktop Rapid Charger (BC-145SE included)
BC-171 01	117V drop-in trickle charger (BC-147SA included)
BC-171 02	220V drop-in trickle charger (BC-147SE included)
BC-197 22	110V gang charger for radios with the BP-232N battery
BC-197 23	220V gang charger for radios with the BP-232N battery
IA-BC171	Heavy duty vehicular charger - 117V
IA-TC100A	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L
Extended Warranty	
EXTWARR611	1 year extended warranty for a total of 4 years
EXTWARR612	2 year extended warranty for a total of 5 years
EXTWARR613	3 year extended warranty for a total of 6 years
Headsets	
AD-52	Earphone adapter - required for SP-13
HS-94	Ear-piece type headset for VS-1SC
HS-95	Headset with boom mic for VS-1SC
HS-97	Earphone with throat mic for VS-1SC
SP-13	Earphone for handhelds - requires AD-52
Otto V4-10514	Lightweight single speaker headset w/in-line ptt
Otto V4-BA2CM1	Breeze behind-the-head headset, single speaker, w/left boom
Otto V4-EX2CM1	Explorer, lightweight, flexible earloop w/boom mic
Otto V4-HC2CM1	Hurricane, lightweight, dual ear, behind-the-head headset
VS-1SC	VOX/PTT unit (requires headset)
Internal Modules	
UT-109R	Non-rolling voice scrambler. Up to 32 codes available (not compatible with UT-110)
UT-110R	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes (available in analog mode only)
UT-124R	Man down unit
UT-126H	6.25kHz digital board - required in radio to use digital channels
Installation Charges	
INSTALLLM6789	Install board into radio for 1-24 radios, 25-49 radios or 50+ radios
Manuals	
98815083	Owners Manual
97715082	F3161 Service Manual
97715154U	F4161 Service Manual
94415081	CD Service Manual
PassPort	
PassPort 2.8	Firmware upgrade to PassPort 2.8 done at Icom America
PassPort 4.0	Firmware upgrade to PassPort 4.0 done at Icom America

F3161/D - F4161/D Series

Accessories Continued

Model	Description
Programming	
CS-F3161/F5061	Programming software (will not work on railroad radios)
OPC-966	Programming cloning cable with RC-232S connector
OPC-966U	Programming cloning cable with USB connector
PROGLM6789	Programming for 1-24 radios, 25-49 radios or 50+ radios
Railroad Firmware	
RR Firmware	Install railroad specific firmware in the IDAS digital radios. Can only be done at time of order at Icom America
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI9	Cable for RedHawk mic with 9-pin connector
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone
Speaker Microphones & Earpieces	
HM-131SC	Compact type speaker microphone
HM-159SC LG	Full size durable speaker microphone (IP-X4) low gain
HM-169	Waterproof speaker microphone (IP-67)
HM-169 IS*	Waterproof speaker microphone, Intrinsically Safe
HM-170GP	Waterproof GPS speaker mic
IMPACT HD1-I5	Compact lightweight speaker mic, splash proof, 3.5mm accessory jack
IMPACT HD3-I5	Professional grade speaker mic, water resistant, 3.5mm accessory jack
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug
Otto V1-10515	Barrel PTT to use with headsets with pigtails
Otto V1-10519	80mm body PTT to use with headsets with pigtails
Otto V1-10822	2-wire palm mic kit (black)
Otto V2-10314	Evolution heavy duty speaker mic
Otto V2-10315	H2O Evolution style speaker mic immersion rated (IP68)
Otto V2-L2CM11	Profile speaker mic
Otto V2-10273-S	Intrinsically safe H2O Evolution style speaker mic immersion rated (IP68)
Otto V2-10274-S	Intrinsically safe evolution heavy duty speaker mic

**IS approved accessories*

F3261D - F4261D Series

Waterproof Analog, LTR®, Digital Portables

VERSIONS

VHF, full DTMF or no DTMF keypad

F3261DS	136-174MHz
F3261DT	136-174MHz

VHF with built-in GPS, full DTMF or no DTMF keypad

F3261DS	136-174MHz
F3261DT	136-174MHz

UHF, full DTMF or no DTMF keypad

F4261DS/DT	400-470MHz
F4261DS/DT	450-512MHz

UHF with built-in GPS, full DTMF or no DTMF keypad

F4261DS/DT	400-470MHz
F4261DS/DT	450-512MHz

SPECS & FEATURES

Output Power:	5W (VHF); 5W (UHF)
Channels:	512
Channel Spacing:	12.5/6.25kHz
PLL Chnl Spacing:	2.5 / 3.125kHz
LCD Display:	Full dot-matrix
Programmable Keys:	8
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Programmable:	PC with CSF3161/5061 software
Weight:	14.1oz (with BP-232WP)
Other Features:	IP67 waterproof protection Basic LTR®/Conventional mixed mode Built-in GPS receiver (on specific versions) Built-in man down function Lone worker function IDAS Single-site trunking MultiTrunk - IDAS multi-site trunking Voting mode scanning 14 pin multi-connector

SIGNALING

MDC1200 (analog & LTR)
CTCSS/DCS encode/decode
DTMF decode
2/5 tone encode/decode standard

ENCRYPTION

Inversion scrambler built-in

COMES IN THE BOX

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-232WP)
Belt clip (MB94R)
Owners manual

WARRANTY

3-Year

DIGITAL IDAS™ FEATURES

Basic LTR® / Conventional / IDAS mixed mode
IDAS Trunking - single or multisite
6.25kHz Digital channel spacing w/ UT-126 installed

IP67 Meets MIL-STD 810 OTTO® ACCESSORIES AVAILABLE GPS MULTITRUNK iDAS™

F70/F80 - F70D/F80D Series

High End Analog, P25, I.S. and FIPS Portables

Non-“D” Means P25 Upgradable / “D” Signifies P25 Ready

VERSIONS

EMDC, I.S. & FIPS* Versions Available:

VHF No keypad	
F70S	136-174 MHz
F70DS*	136-174 MHz
VHF with keypad	
F70T	136-174 MHz
F70DT*	136-174 MHz
UHF No keypad	
F80S	400-470 or 450-512 MHz
F80DS*	380-450 MHz
F80DS*	400-470 or 450-512 MHz
UHF with keypad	
F80T	400-470 or 450-512 MHz
F80DT*	400-470 or 450-512 MHz

SPECS & FEATURES

Output Power:	4W (UHF); 5W (VHF)
Channels:	256 with 32 zones
Channel Spacing:	12.5 / 25kHz
PLL Chnl Spacing:	2.5, 3.125kHz, 5, 6.25kHz
LCD Display:	Full dot matrix, switchable 1 line 12 character or 2 line 24 character
Programmable Keys:	8
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Programmable:	PC with CSF70/1700 software
Weight:	14.1oz (with BP-253) 15.9oz (with BP-254)
Other Features:	Tactical group function IPX7 Submersible Built-in audio compander Unit Down: UT-124 2 Step power saver Power On password Busy, repeater lockout functions 8 DTMF audo dial memories Selective call / individual call using Unit ID & talkgroup ID

IPX7
SUBMERSIBLE

DIGITAL P25 FEATURES

Interoperability with other manufacturer’s P25 digital radios in conventional mode
Compatible w/ both analog FM & P25 digital mode
NAC (Network Access Code) operation provides quiet stand-by
AES/DES

SIGNALING

CTCSS / DTCS Encode/Decode
Built-In 2-Tone, 5-Tone
DTMF
MDC1200
ANI with 2/5 tone & DTMF

ENCRYPTION (analog only)

Simple Inversion: UT-109 32 Codes
Rolling Code: UT-110 1020 Codes

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-253, BP-254 or BP-254FM)
Belt Clip (MB-94)
Owners manual

WARRANTY

F70/F80	2-Year
F70D/F80D	3-Year

FM APPROVED AVAILABLE

OTTO ACCESSORIES AVAILABLE

Meets MIL-STD 810

MDC 1200 Compatible

F70 - F80 Series

Configurations - Analog

Model	Description
F80S 05	400-470MHz, no keypad, BP-253 battery
F80S 05 RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80S 06	450-512MHz, no keypad, BP-253 battery
F80S 06 RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed

Configurations - Analog Intrinsically Safe

Model	Description
F70S 23	136-174MHz, no keypad, BP-254FM battery
F70S 23 RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F70T 33	136-174MHz, keypad, BP-254FM battery
F70T 33 RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80S 45*	400-470MHz, no keypad , BP-254FM battery
F80S 45 RC*	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80S 46*	450-512MHz, no keypad, BP-254FM battery
F80S 46 RC*	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80T 55*	400-470MHz, keypad, BP-254FM battery
F80T 55 RC*	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80T 56*	450-512MHz, keypad, BP-254FM battery
F80T 56 RC*	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed

Call for availability - may need to special order, please allow 90 days for delivery
Double upgrade to full P25, however radio will no longer be IS rated

F70D - F80D Series

Configurations - P25

Model	Description
F70DS 01	136-174MHz full P25, no keypad, BP-253 battery
F70DS 01 RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F70DT 11	136-174MHz full P25, keypad, BP-253 battery
F70DT 11 RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80DS 01*	400-470MHz full P25, no keypad, BP-253 battery
F80DS 01* RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80DS 02*	450-512MHz full P25, no keypad, BP-253 battery
F80DS 02* RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80DT 21*	400-470MHz full P25, keypad, BP-253 battery
F80DT 21* RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80DT 22*	450-512MHz full P25, keypad, BP-253 battery
F80DT 22* RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed

Configurations - P25 Intrinsically Safe

Model	Description
F70DS 21	136-174MHz P25, no keypad, IS, BP-254FM battery
F70DS 21 RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F70DT 31	136-174MHz P25, keypad, IS, BP-254FM battery
F70DT 31 RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80DS 41*	400-470MHz P25, no keypad, IS, BP-254FM battery
F80DS 41* RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80DS 42*	450-512MHz P25, no keypad, IS, BP-254FM battery
F80DS 42* RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80DT 51*	400-470MHz P25, keypad, IS, BP-254FM battery
F80DT 51* RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80DT 52*	450-512MHz P25, keypad, IS, BP-254FM battery
F80DT 52* RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed

Configurations - P25 FIPS

Model	Description
F70DS 04	136-174MHz P25, no keypad, FIPS & AES, BP-254 battery
F70DS 04 RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F70DT 14	136-174MHz P25, keypad, FIPS & AES, BP-254 battery
F70DT 14 RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80DS 31*	380-450MHz P25, no keypad, FIPS & AES, BP-254 battery, FASC04U antenna
F80DS 31* RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80DT 35*	380-450MHz P25, keypad, FIPS & AES, BP-254 battery, FASC04U antenna
F80DT 35* RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed
F80DT 36*	400-470MHz P25, keypad, FIPS & AES, BP-254 battery
F80DT 36* RC	Radio with BC-119N 61 rapid charger & AD-110 adapter cup installed

Call for availability - may need to special order, please allow 90-120 days for delivery

Federal Information Processing Standard (FIPS) 140-2 is a US government computer security standard used to accredit cryptographic modules.

The FIPS logo is a Certification Mark of NIST, which does not imply product endorsement by NIST, the U.S. or Canadian Governments.

F70/D - F80/D Series

Accessories

Model	Description
Antennas	
AD-98FSC	BNC antenna conversion connector
CEN EXD 400 MXI	Stubby antenna 400-430
FASC04U	Flexible antenna for 380-450 MHz (Blue tip)
FA-SC25U	Flexible antenna for 400-430MHz UHF (Green tip)
FA-SC25V	Flexible antenna for 136-155MHz VHF (Blue tip)
FA-SC55V	Flexible antenna for 146-174MHz VHF (Red tip)
FA-SC56U	Flexible antenna for 430-470MHz UHF (Red tip)
FA-SC72U	Flexible antenna for 470-520MHz UHF (Blue tip)
FA-SC56VS	Stubby antenna 150-160MHz (red ring)
FA-SC57VS	Stubby antenna 160-174MHz (green ring)
FA-SC73US	Stubby antenna 450-470MHz (red ring)
FA-SC61UC	380-512MHz cut antenna to frequency needed
FA-SC61VC	136-174MHz cut antenna to frequency needed
LAIRD EXH 160 MXI	155-165 MHz Unity Gain, 1/4 Wavelength antenna
LARSEN SPHL10160IC	155-165 MHz antenna - standard railroad antenna
antenna upgrades available for pull/swap - just make sure you add it to your PO clearly	
Batteries	
BP-237	AA six alkaline battery pack (water resistant IPX4 - 1W output)
BP-253	7.4V/1650mAh Li-ion battery (standard battery)
BP-254	7.4V/3040mAh Li-ion battery
BP-254 Upgrade	Pull BP-235 and sub BP-254
BP-254FM*	7.4V/3040mAh Li-ion battery IS approved for IS radios only
Belt Clips & Cases	
MB-93	Swivel belt clip
MB-94	Alligator Belt Clip (standard with radio)
MB-96N	Swivel type leather belt hanger
MB-96F	Fixed type leather belt hanger
Cases	
AW F70 Area 51	Durable water resistant case with unique swivel clip
AW STUD	Stud that slips over the battery clip connection point
AW SWIVEL	Swivel belt clip to attach with AW cases and Stud
AW Stud/Swivel Kit	Stud and swivel together in a kit
LC-F70 CLIP	Leather case with a clip with a full keypad cutout
LC-F70 LOOP	Leather case with a loop with a full keypad cutout
LC-F70 SWIVEL	Leather case with a swivel with a full keypad cutout
LC-F70S LOOP	Leather case with a loop with a half keypad cutout
LC-F70S SWIVEL	Leather case with a swivel with a half keypad cutout
NC-F70 CLIP	Nylon Carrying case with a clip with a full keypad cutout
NC-F70 LOOP	Nylon Carrying case with a loop with a full keypad cutout
Chargers	
AD-110	Adapter cup for BC-119N charger
BC-119N 01	117V desktop rapid charger; AD110 adapter cup required
BC-119N 02	220V desktop rapid charger; AD110 adapter cup required
BC-119N 61	117V desktop rapid charger, AD110 adapter cup installed
BC-121N	Multi-Unit (6) Desktop Chrgr (BC-157 02 & AD110 adapter cups req.)
BC-121NF70	BC121 + BC157 + 6 AD-110
BC-121NF70 220V	BC121 + BC157 04 + 6 AD-110

**IS approved accessories*

F70/D - F80/D Series

Accessories Continued

Model	Description
Chargers Continued	
BC-145SA 31	117V AC adapter for BC-119N (included w/BC-119N 01)
BC-145SE 32	220V AC adapter for BC-119N (included w/BC-119N 02)
BC-157S 07	117V Power Supply for the BC-121 gang charger
BC-157S 09	220V Power Supply for the BC-121 gang charger
CP-17L	Cigarette lighter cable charges BC-119N (12-16V req.)
Headsets	
HS-94*	Ear-piece type headset for VS-1SC
HS-95*	Headset with boom mic for VS-1SC
HS-97*	Earphone with throat mic for VS-1SC
SP-13	Earphone for handhelds - requires AD-52
Otto V4-10514	Lightweight single speaker headset w/in-line PTT
Otto V4-BA2CM1	Breeze behind-the-head headset, single speaker, w/left boom
Otto V4-EX2CM1	Explorer, lightweight, flexible earloop w/boom mic
Otto V4-HC2CM1	Hurricane, lightweight, dual ear, behind-the-head headset
VS-1SC*	VOX/PTT unit (requires headset)
Extended Warranty	
EXTWARP25P1	1 year extended warranty P25 digital portable
EXTWARP25P2	2 years extended warranty P25 digital portable
EXTWARP25P3	3 years extended warranty P25 digital portable
Internal Modules	
UT-109 02*	Simple voice inversion scrambler with up to 32 codes. Available in analog use only.
UT-110 02*	Rolling code scrambler with up to 1020 codes (255 codes x 4 groups) Available in analog use only
UT-124*	Unit down board
Installation Charges	
INSTALLLM6789	Install board into radio for 1-24 radios, 25-49 radios or 50+ radios
Manuals	
94414953	CD Service Manual
97714933	Service Manual
98814911	Owners Manual
Programming	
CS-F70/F1700	Programming Software
OPC-966	Programming cloning cable with RC-232S connector
OPC-966U	Programming cloning cable with USB connector
OPC-1533	Radio to radio cloning cable between portable and mobile.
OPC-1536	Radio to radio cloning cable between portable and portable.
PROGLM6789	Programming for 1-24 radios, 25-49 radios or 50+ radios
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI9	Cable for RedHawk mic with 9-pin connector
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables

**IS approved accessories with the F70 series radios*

F70/D - F80/D Series

Accessories Continued

Model	Description
RedHawk Continued	
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone
Speaker Microphones & Earpieces	
HM-131SC	Compact type speaker microphone
HM-159SC LG	Full size durable speaker microphone (IP-X4) low gain
HM-169	Waterproof speaker microphone (IP-67)
HM-169 IS*	Waterproof speaker microphone, Intrinsically Safe
IMPACT HD1-I5	Compact lightweight speaker mic, splash proof, 3.5mm accessory jac
IMPACT HD3-I5	Professional grade speaker mic, water resistant, 3.5mm accessory jac
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug
Otto V1-10515	Barrel PTT to use with headsets with pigtails
Otto V1-10519	80mm body PTT to use with headsets with pigtails
Otto V1-10822	2-wire palm mic kit (black)
Otto V2-10314	Evolution heavy duty speaker mic
Otto V2-10315	H2O Evolution style speaker mic immersion rated (IP68)
Otto V2-L2CM11	Profile speaker mic
Otto V2-10273-S	Intrinsically safe H2O Evolution style speaker mic immersion rated (IP68)
Otto V2-10274-S	Intrinsically safe evolution heavy duty speaker mic

**IS approved accessories with the F70 series radios*

AES/DES/P25 Upgrades

Model	Description
Upgrading from Analog to Digital	
P25 Portable Upgrade	P25 activation code to upgrade non P25 radios to P25. The cost is per radi
EX-2785J01	P25 activation software & firmware. A NC copy is sent with each order (part of the upgrade process not sold separately)
UT-120 01	Portable board plugs into non "D" radios. Activation code required in addition. All board must be installed at Icom America
AES	
AES Portable Upgrade	AES activation code for upgrading P25 radios to AES. The cost is per radio.
EX-2785J03	AES activation software. A NC copy is sent each time you upgrade radios (this is part o the upgrade process not sold separately)
DES	
DES Portable Upgrade	DES activation code for upgrading P25 radios to DES. The cost is per radio.
EX-2785J02	DES activation software. A NC copy is sent each time you upgrade radios (this is part of th upgrade process not sold separately)
Cables	
OPC-1558	Key loader cable for portable radios loads AES/DES encryption keys. Motorola KVL 300(key loader required to add or change the encryption key to radio**

P25/AES/DES upgrades are not refundable

AES/DES UPGRADE:

IA upgrade process is estimated at 5-7 business days, if radios are purchased at IA and upgraded at the same time;
Dealer Installation we estimate turn-time for to be 3-5 business days before you will receive the AES/DES upgrade codes.
**If the radio programming is ever changed, the encryption code will be lost and you must reenter it again with the key loader

ENCRYPTION: All encryption products, kits, software and technology require an approved export license prior to shipment. Th international use of encryption algorithms are highly restricted by the U.S. Federal Government. License approvals are considered for export to limited selection of countries & end users. Contact our Customer Service Manager to discuss any possible licensing restrictions and licensing information before submitting bids, proposals, or accepting orders for algorithm based encryption produc YOUR FAILURE TO COMPLY WITH EXPORT REGULATIONS MAY BE SUBJECT TO FINE OR PENALTIES.

F9011 - F9021 Series

P25 Trunking Portables

VERSIONS

VHF	F9011B 01	136-174 MHz
	F9011S 05	136-174 MHz
	F9011T 10	136-174 MHz
UHF	F9021B 01	400-470 MHz
	F9021S 05	400-470 MHz
	F9021T 10	400-470 MHz
UHF	F9021B 41	380-470 MHz
	F9021S 45	380-470 MHz
	F9021T 50	380-470 MHz
UHF	F9021S 25	450-520 MHz
	F9021T 30	450-520 MHz

B version

S version

T version

SPECS & FEATURES

Output Power:	6W (VHF); 5W (UHF)
Channels:	512
Channel Spacing:	15 / 30kHz (analog) 12.5kHz (digital)
PLL Chnl Spacing:	2.5, 3.125kHz
Display:	Dot matrix LCD with backlighting
Programmable Keys:	12 buttons, 1 toggle, 1 3-position switch
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Programmable:	PC with software
Weight:	1.17lb (with BP-254)
Other Features:	Large navigational cross keypad
	14 pin accessory connector with programmable key assign
	1W audio output with BTL amplifier (can be used with optional speaker mic)
	IP57 Submersible & dust protected
	Enhanced vocoder, built-in audio compander
	Over-the-air-rekeying (OTAR) in P25 conventional & P25 trunking with UT-125

SIGNALING

CTCSS / DCS Encode/Decode
2 Tone
MDC1200

COMES WITH

Antenna (FA-S65V or FA-S58U)
Battery (BP-254)
Belt Clip (MB-115)
Owners manual

ENCRYPTION

FIPS: 140-2 (level 1) certified AES
AES: UT-125 (AES, DES & OTAR)
DES: UT-128

WARRANTY

3-Year

IP57
SUBMERSIBLE &
DUST PROTECTED

Meets MIL-STD 810

MDC 1200 Compatible

F9011 - F9021 Series

Configurations

Model	Description
F9011B 01	136-174MHz P25 trunking portable, no display & no keypad
F9011B 01 RC	With BC-119N 61 rapid charger & AD-110 adapter cup installed
F9011S 05	136-174MHz P25 trunking portable, display & no keypad
F9011S 05 RC	With BC-119N 61 rapid charger & AD-110 adapter cup installed
F9011T 10	136-174MHz P25 trunking portable, display & full keypad
F9011T 10 RC	With BC-119N 61 rapid charger & AD-110 adapter cup installed
F9021B 01*	400-470MHz P25 trunking portable, no display & no keypad
F9021B 01 RC*	With BC-119N 61 rapid charger & AD-110 adapter cup installed
F9021S 05*	400-470MHz P25 trunking portable, display & no keypad
F9021S 05 RC*	With BC-119N 61 rapid charger & AD-110 adapter cup installed
F9021T 10*	400-470MHz P25 trunking portable, display & full keypad
F9021T 10 RC*	With BC-119N 61 rapid charger & AD-110 adapter cup installed

Call for availability - may need to special order, please allow 90-120 days for delivery

Accessories

Model	Description
Antennas	
FA-S25V	136-148 MHz flexible antenna
FA-S58U	400-470 MHz flexible antenna - standard on radio
FA-S65V	148-160 MHz flexible antenna - standard on radio
FA-S66V	160-174 MHz flexible antenna
FA-S67VC	136-174 MHz cut antenna
Batteries	
BP-237	AA six alkaline battery pack (water resistant IPX4)
BP-254	Li-ion 7.2V 3040mAh (typical capacity), 2900mAh (minimum value)
Belt Clips	
MB-115	Alligator type belt clip (supplied with radio)
Cables	
OPC-515L	Power supply cable for use with BC-119N
OPC-656	Power supply cable for use with BC-121N
Cases	
LCF9011S SWIVEL	Leather Case with a swivel with a half keypad cutout
LCF9011T SWIVEL	Leather Case with a swivel with a full keypad cutout
NCF9011S CLIP	Nylon Carrying case with a clip with a half keypad cutout
NCF9011T CLIP	Nylon Carrying case with a clip with a full keypad cutout
Chargers	
AD-110	Adapter cup for BC-119N charger
BC-119N 01	117V Desktop Rapid Charger; adapter cup required
BC-119N 02	220V Desktop Rapid Charger; adapter cup required
BC-119N 61	117V Desktop Rapid Charger; AD110 adapter cup installed
BC-121N	Multi-Unit (6) Desktop Chrgr (BC-157 02 & AD110 req.)
BC-121NF70	BC121 + BC157 02 + 6 AD-110

F9011 - F9021 Series

Accessories

Model	Description
Chargers Continued	
BC-121NF70 220V	BC121 + BC157 04 + 6 AD-110
BC-145SA 31	117V AC adapter for BC-119N (incld w/BC-119N 01)
BC-145SE 32	220V AC adapter for BC-119N (incld w/BC-119N 02)
BC-157S 07	Power Supply for the BC-121 Gang Charger
BC-157S 09	BC121N Power Supply, 220V
CP-17L	Cigerrette lighter cable charges BC-119N (12-16V req.)
Extended Warranty	
EXTWARP25P1	1 year extended warranty P25 digital portable, total of 4 years
EXTWARP25P2	2 years extended warranty P25 digital portable, total of 5 years
EXTWARP25P3	3 years extended warranty P25 digital portable, total of 6 years
Internal Modules	
UT-124R	Man Down Unit
UT-125	AES/DES encryption & OTAR
UT-128	DES encryption board - special order only minimum order 50 units
Installation Charges	
INSTALLLM6789	Install board into radio for 1-24 radios, 25-49 radios or 50+ radios
Manuals	
94415435	CD Service Manual
97715424	Service Manual
98815487	Owners Manual
Programming	
CS-F9011/F9510	Programming Software
OPC-1862	Programming cloning cable with USB connector
OPC-1871	Radio to radio cloning cable between portable and mobile.
OPC-1870	Radio to radio cloning cable between portable and portable.
OPC-1534	Key Loader cable connects KVL3000Plus cable to Radio (requires OPC-1871 & RJ45 to RJ45 female-female modular adapter part#5610000510)
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI14	Cable for RedHawk mic with 14-pin connector
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone
Speaker Microphones	
HM-184	Waterproof speaker micrphone with programmable button IP57
VOX/Headsets	
HS-94	Ear-piece type headset for VS-1SC
HS-95	Headset with boom mic for VS-1SC
HS-97	Earphone with throat mic for VS-1SC
VS-1MC	PTT/VOX unit (required when using above headsets with the radio) VOX circuit inside

4088A

FRS UHF FM Transceiver

VERSIONS

Short Antenna:
4088A 15

SPECS & FEATURES

Output Power:	1/2W
Channels:	14, 38 group codes
Other Features:	38 CTCSS frequenncies
	Easy to operate
	Water resistant
	Requires no license fees
	High performance antenna
	Built-in voice scrambler

WARRANTY

2-Year

MODEL	DESCRIPTION
Belt Clip	
8930070790	Belt clip
Headsets	
HS-51	Headset w/ PTT & VOX
HS-85	Headset w/VOX
Manuals	
98814722	Owners manual
97714833	Service manual
Speaker Microphones	
HM-46	Slim-line speaker microphone; equipped with earphone jack
HM-75A	Speaker mic
HM-128	Earphon-microphone with PTT switch that clips to lapel
HM-131	Mic with earphone jack and revolving clip

Mobile Radio Selection Chart

from entry level to specialized, full-featured radios; Icom has the right radio for the right job

	Entry Level / Standard				Specialized / Full-featured					
Radio	**F5011**	**F5021**	**F5121D**	**F621TR**	**F5061**	**F5061D**	**F1721**	**F1721D**	**F9511**	**F9511HT**
Number of Channels	8	128	128	250	512	512	256	256	512	512
Frequency Range	VHF: 136-174MHz UHF: 440-490MHz	VHF: 136-174MHz UHF: 400-470 or 450-512MHz	VHF: 136-174MHz UHF: 400-470 or 450-512MHz	UHF: 440-490MHz	VHF: 136-174MHz UHF: 400-470 or 450-512MHz	VHF: 136-174MHz UHF: 400-470 or 450-512MHz	VHF: 136-174MHz UHF: 400-470 or 450-512MHz	VHF: 136-174MHz UHF: 400-470 or 450-512MHz	VHF: 136-174MHz UHF: 400-4700 450-512MHz	VHF: 136-174MHz UHF: 400-470 or 450-512MHz
Digital or Analog	Analog	Analog	Analog & Digital	Analog	Analog/Digital Upgradeable	Analog & Digital	Analog/P25 Digital Upgradeable	Analog & Digital	Analog & Digital	Analog & Digital
LTR® Trunking				X	X	X				
Digital Trunking			X		Digital Upgradeable	X			X	X
P25 capable							P25 upgradable	X	X	X
Emergency Call	X	X	X	X	X	X	X	X	X	X
Basic Built-in Encryption	X	X		X	X	X	X	X	X	X
Enhanced Encryption										
Text Messaging/ GPS	X				X	X	X	X		
DTMF Signaling	X	X	X	X	X	X	X	X	X	X
MDC1200 Signaling*	X	X	X		X	X	X	X	X	X
Full keypad version							X	X	X	X
Display		X	X	X	X	X	X	X	X	X
Remote Mount Kit					X	X	X	X	X	X

*MDC Capabilites differ depeding on model

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MOBILE ACCESSORIES

	SEPARATION KITS			SEP. CABLES	GPS	DESKTOP MIC	
	RMK2	**RMK3**	**RMK4** (Dual head)	**OPC607** (3m;9.8ft) **OPC608** (8m;26.2ft) **OPC609** (1.9m; 6.25ft) **OPC726** (5m; 16.4ft)	**IA-10301** (GPS for IDAS/EMDC)	**SM26**	
F5011/F6011						X	
F5021/F6021						X	
F5121D/F6121D					X	X	
F5061/F6061		X		X	X	X	
F1721/F2721	X			X		X	
F9511/F9521	X			X		X	
F9511HT			X	X		X	
F621TR						X	
FR5000/6000						X	

	HAND MICROPHONES				ACC CABLES		
	HM148/G	**HM148T** DTMF MIC	**HM152**	**HM152T** DTMF MIC	**OPC617** (9-pin type)	**OPC1939** (15-pin type)	**OPC2078** (25-pin type)
F5011/F6011	X	X	X	X		X	X
F5021/F6021	X	X	X	X		X	
F5121D/F6121D	X	X	X	X		X	X
F5061/F6061	X	X	X	X			
F1721/F2721	X	X	X	X	X		
F9511/F9521	X	X	X	X			
F9511HT	X	X	X	X			
F621TR	X	X	X	X			
FR5000/6000	X	X	X	X			

MOBILE ACCESSORIES

	ZONE COPY CABLES		EXTERNAL SPEAKERS				DC POWER CABLES
	OPC1532 (mobile to mobile) **OPC1533** (mobile to handheld)	**OPC1532** (mobile to mobile) **OPC1871** (mobile to handheld)	**SP5**	**SP10**	**SP22**	**SP30**	**OPC347** (7m; 23ft) **OPC1132** (3m; 9.8ft)
F5011/F6011			X	X	X	X	X
F5021/F6021			X	X	X	X	X
F5121D/F6121D			X	X	X	X	X
F5061/F6061			X	X	X	X	X
F1721/F2721	X		X	X	X	X	X
F9511/F9521		X	X	X	X	X	X
F9511HT		X	X	X	X	X	
F621TR			X	X	X	X	X
FR5000/6000					X	X	

	INTERNAL MODULE OPTIONS						
	UT108 (DTMF Decoder Kit)	**UT109** (Voice Scrambler Unit)	**UT110** (Voice Scrambler Unit)	**UT125** (Encryption AES/DES)	**UT126** (Digital Unit 6.25kHz)	**UT128** (Encryption AES/DES)	
F5011/F6011	X	X	X				
F5021/F6021	X	X	X				
F5121D/F6121D							
F5061/F6061		X	X		X		
F1721/F2721		X	X				
F9511/F9521				X		X	
F9511HT				X		X	
F621TR	X	X	X				
FR5000/6000		X	X				

F5011 - F6011 Series

Basic Mobiles

VERSIONS

VHF	F5011 51	136-174 MHz
UHF	F6011 51	400-470 MHz
	F6011 52	450-512 MHz

Configurations listed on adjoining pages

SPECS & FEATURES

Output Power:	50W (VHF), 45W (UHF)
Channels:	8 chanels, 2 zones
Channel Spacing:	12.5 / 25kHz
PLL Channel Step:	2.5, 3.125
Programmable Keys:	4
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Programmable:	PC with CSF3021/F5011/F5021 software
Other Features:	Priority scan function allows you to monitor one or two priority channels while scanning other non-priority channels
	Tx channel and talk back functions allow you to make a quick response while scanning
	Microphone hanger action programmable
	Time out timer
	Talk around function
	Power ON password

SIGNALING

CTCSS/DTCS encode/decode
DTMF encode
2/5 Tone
MDC1200 PTT ID & Emergency call
DTMF decode (UT-108R)

ENCRYPTION

Simple Inversion: UT-109R 32 Codes
Rolling Code: UT-110R 1020 Codes

COMES WITH

Hand mic (HM-152)
Mounting bracket
Power cable (OPC-1132)
Owners manual

WARRANTY

2-Year

Meets MIL-STD 810

MDC 1200 Compatible

F5011 - F6011 Series

Configurations

Model	Description
F5011 51	136-174MHz, 50W basic mobile
F5011 51B	Mobile radio with power supply & cabinet
F6011 51	400-470MHz, 45W basic mobile
F6011 51B	Mobile radio with power supply & cabinet
F6011 52	450-512MHz, 45W basic mobile
F6011 52B	Mobile radio with power supply & cabinet

Accessories

Model	Description
Antennas	
ANTENNA 1	118-940MHz mountable unity antenna, field tunable, 1/4 WAVE, CHR,
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high
Cables	
OPC-1132	3m DC power cable
OPC-1939	ACC Cable- 15-pin type
OPC-2078	ACC Cable- 25-pin type
OPC-347	Optional 7M DC power cord
Extended Warranty	
EXTWARR211	1 year extended warranty for a total of 3 years
EXTWARR212	2 year extended warranty for a total of 4 years
EXTWARR213	3 year extended warranty for a total of 5 years
External Speakers	
SP-5	Medium sized square external speaker
SP-10	Compact rectangular external speaker - 5W, 4 Ohm
SP-22	Small rectangular mobile external speaker - 5 Watt, 4 Ohm
SP-30	Large external speaker with loud audio
Internal Modules	
UT-108R	DTMF Decoder
UT-109R	Simple voice inversion scrambler with up to 32 codes
UT-110R	Rolling code scrambler w/up to 1020 (255 codes x 4 groups)
Installation Charges	
INSTALLLM1234	Install board into radio for 1-24 radios, 25-49 radios or 50+ radios
Manuals	
94415596	CD Service Manual
97715595	Service Manual
98815594	Owners Manual
Microphones	
HM-148G	Heavy duty self grounding microphone
HM-148T	Heavy duty DTMF microphone
HM-152	Basic microphone (standard)
HM-152T	DTMF microphone
SM-26	Desktop Microphone

F5011 - F6011 Series

Accessories

Model	Description
Mounting Options	
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector
F121 MMB	Mounting bracket-standard
Power Supply	
ICT CS120-20AG/IC04	Power supply and cabinet
Programming	
CS-F3021/ F5011/F5021	Programming Software
OPC-1122	Programming cable - PC to radio with RC-232S connector
OPC-1122U	Programming cable - PC to radio with USB connector
PROGLM1234	Programming for 1-24 radios, 25-49 radios or 50+ radios
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI1	Cable for RedHawk mic with mobile radio connector. Analog operation only
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone

F5021 - F6021 Series

Advanced Mobiles

VERSIONS

VHF	F5021 51	136-174 MHz
UHF	F6021 51	400-470 MHz
	F6021 52	450-512 MHz

Configurations listed on adjoining pages

SPECS & FEATURES

Output Power:	50W (VHF), 45W (UHF)
Channels:	128 chanels, 8 zones
Channel Spacing:	12.5 / 25kHz
PLL Channel Spacing:	2.5, 3.125kHz
Display:	LCD with 8 character alphanumeric
Programmable Keys:	6
Mil Spec:	810 C, D, E, F
Scan:	Normal & priority
Programmable:	PC with CSF3021/F5011/F5021 software
Other Features:	External memory channel control w/ optional ACC cable
	Tx channel setting & talk back function
	Radio kill, stun, revive
	Embedded ESN
	Backlit keys
	Mode dependent scan

SIGNALING

CTCSS/DTCS decode
2/5 Tone
MDC1200
DTMF Encode
DTMF Decode (UT-108R)

ENCRYPTION

Simple Inversion: UT-109R 32 Codes
Rolling Code: UT-110R 1020 Codes

COMES WITH

Microphone (HM-152)
Mounting bracket
Power cable (OPC-1132)
Owners manual

WARRANTY

2-Year

Meets MIL-STD 810

MDC 1200 Compatible

F5021 - F6021 Series

Configurations

Model	Description
F5021 51	VHF Mobile 136-174 MHz, 50W, 128 channels
F5021 51 B	Mobile radio with power supply & cabinet
F6021 51	UHF Mobile 400-470 MHz, 45W, 128 channels
F6021 51B	Mobile radio with power supply & cabinet
F6021 52	UHF Mobile 450-512 MHz, 45W, 128 channels
F6021 52B	Mobile radio with power supply & cabinet

Accessories

Model	Description
Antennas	
ANTENNA 1	118-940MHz mountable unity antenna, field tunable, 1/4 WAVE, CHR,
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high
Cables	
OPC-1132	3m (9.8ft) standard DC power cable
OPC-1939	ACC Cable- 15-pin type
OPC-2078	ACC Cable- 25-pin type
OPC-347	7m (23ft) DC power cable
Extended Warranty	
EXTWARR211	1 year extended warranty for a total of 3 years
EXTWARR212	2 year extended warranty for a total of 4 years
EXTWARR213	3 year extended warranty for a total of 5 years
External Speaker	
SP-5	Medium sized square external speaker
SP-10	Compact rectangular external speaker - 5W, 4 Ohm
SP-22	Small rectangular mobile external speaker - 5 Watt, 4 Ohm
SP-30	Large external speaker with loud audio
Internal Modules	
UT-108R	DTMF Decoder unit
UT-109R	Simple voice inversion scrambler with up to 32 codes
UT-110R	Rolling code scrambler with up to 1020 (255 codes x 4 groups) available
Installation Charges	
INSTALLLM1234	Install board into radio for 1-24 radios, 25-49 radios or 50+ radios
Manuals	
98815594	F5021/F6021 Owners manual
97715595	F5021 service manual
97715696	F6021 service manual
94415596	F5021 CD service manual
94415697	F6021 CD service manual
Microphones	
HM-152	Standard microphone (supplied)
HM-152T	DTMF microphone
HM-148G	Heavy duty microphone
HM-148T	Heavy duty DTMF microphone, self grounding type
SM-25	Desktop microphone equipped with a monitor switch.

F5021 - F6021 Series

Accessories

Model	Description
Mounting Brackets	
F5021 MMB	Standard mounting bracket
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector
Power Supply	
ICT CS120-20AG/IC04	Power supply and cabinet
Programming	
CS-F3021/ F5011/F5021	F5021/F6021 Windows Programming Software
OPC-1122	Programming Cloning Cable for PC to Radio with RC-232S connector
OPC-1122U	Programming Cloning Cable for PC to Radio with USB connector
PROGLM1234	Programming for 1-24 radios, 25-49 radios or 50+ radios
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI1	Cable for RedHawk mic with mobile radio connector. Analog operation only
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone

F5121D - F6121D Series

IDAS™ (Conventional & Digital) Mobiles

VERSIONS

VHF	F5121D	136-174 MHz
UHF	F6121D	400-470 MHz
	F6121D	450-512 MHz

Configurations listed on adjoining pages

IDAS™
ICOM DIGITAL ADVANCED SYSTEM

SPECS & FEATURES

Output Power:	50W (VHF), 45W (UHF)
Channels:	128 chanels, 8 zones
Channel Spacing:	12.5 / 25 / 6.25kHz Digital (VHF) 12.5 / 6.25kHz Digital (UHF)
PLL Channel Step:	2.5, 3.125kHz
LCD Display:	8 Character alphanumeric LCD with backlit or night time operation
Programmable Keys:	7
Mil Spec:	810 C, D, E, F
Scan:	Normal, priority & dual priority
Programmable:	PC with CSF3101D/F5121D software
Other Features:	IDAS™ conventional IDAS™ single-site trunking Digital/analog mixed mode operation GPS receiver connection w/ optional ACC cable Lone worker function Power-on password function Time out timer Mic hanger action programmable

SIGNALING

2/5 Tone in analog mode
CTCSS/DCS
DTMF Encode
DTMF Decode (UT-108R)
MDC1200

COMES WITH

Microphone (HM-152)
Mounting bracket kit
DC Power cable (OPC-1132)
Owners manual

WARRANTY

2-Year

Meets MIL-STD 810

MDC 1200 Compatible

F5121D - F6121D Series

Configurations

Model	Description
F5121D 51	136-174MHz, 50W, IDAS mobile 128 channels
F5121D 51B	F5121D with power supply/cabinet for base station
F6121D 51	400-470MHz, 45W, IDAS mobile 128 channels
F6121D 51B	F6121D with power supply/cabinet for base station
F6121D 52	450-512MHz, 45W, IDAS mobile 128 channels
F6121D 52B	F6121D with power supply/cabinet for base station

Accessories

Model	Description
Antennas	
ANTENNA 1	118-940MHz mountable unity antenna, field tunable, 1/4 WAVE, CHR
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high
Cables	
OPC-1132	3m DC power cable
OPC-1939	ACC Cable- 15-pin type
OPC-2078	ACC Cable- 25-pin type
OPC-347	Optional 7M DC power cord
Extended Warranty	
EXTWARR211	1 year extended warranty for a total of 3 years
EXTWARR212	2 year extended warranty for a total of 4 years
EXTWARR213	3 year extended warranty for a total of 5 years
External Speakers	
SP-5	Medium sized square external speaker
SP-10	Compact rectangular external speaker - 5W, 4 Ohm
SP-22	Small rectangular mobile external speaker - 5 Watt, 4 Ohm
SP-30	Large external speaker with loud audio
GPS	
IA-10301	GPS receiver that connects to the OPC-2078
Internal Modules	
UT-108R	DTMF Decoder
UT-109R	Simple voice inversion scrambler with up to 32 codes
UT-110R	Rolling code scrambler w/up to 1020 (255 codes x 4 groups)
Installation Charges	
INSTALLLM1234	Install board into radio for 1-24 radios, 25-49 radios or 50+ radios
Manuals	
94415608	F5121D CD service manual
94415695	F6121D CD service manual
97715710	F6121D service manual
97715607	F5121D service manual
98815606	F5121D/6121D owners manual
Microphones	
HM-148G	Heavy duty self grounding microphone
HM-148T	Heavy duty DTMF microphone
HM-152	Basic microphone (standard)
HM-152T	DTMF microphone

F5121D - F6121D Series

Accessories Continued

Model	Description
Microphones Continued	
SM-26	Desktop microphone
Mounting Options	
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector
F121 MMB	Mounting bracket-standard
Programming	
CS-F3101D/F5121D	Programming Software
OPC-1122	Programming cable - PC to radio with RC-232S connector
OPC-1122U	Programming cable - PC to radio with USB connector
PROGLM6789	Programming for 1-24 radios, 25-49 radios or 50+ radios
Power Supply	
ICT CS120-20AG/IC04	Power supply and cabinet
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI1	Cable for RedHawk mic with mobile radio connector. Analog operation only
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone

F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, Digital or PassPort Mobiles

Non-“D” Means IDAS Upgradable / “D” Signifies IDAS Ready

VERSIONS

VHF	F5061	136-174 MHz
UHF	F6061	400-470 MHz
	F6061	450-512 MHz

Configurations listed on adjoining pages

SPECS & FEATURES

Output Power:	50W (VHF), 45W (UHF)
Channels:	512 chanels, 128 zones
Channel Spacing:	12.5 / 25kHz
PLL Channel Spacing:	2.5, 3.125kHz
LCD Display:	Dot matrix, switchable 1 line 12 character or 2 line 24 character
Programmable Keys:	7
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Programmable:	PC with CSF3161/5061 software

Other Features:

- Basic LTR, Analog, Digital mixed mode
- Detachable front panel (req. separation kit)
- Voting scan
- D-Sub accessory connector
- 8 DTMF autodial memories & ANI functions
- Power ON password
- Radio stun/kill
- Survellance function (temp. turns LEDs off)
- IDAS SIngle-site trunking
- MultiTrunk - IDAS multi-site trunking
- Key assign stickers supplied
- Busy repeater lock out function

SIGNALING

Encode/decode built-in
2/5 Tone
CTCSS/DCS
DTMF
ANI with 2/5 tone & DTMF
MDC1200
Enhanced MDC option (EMDC)
PassPort® (optional)

ENCRYPTION

Simple Inversion: UT-109R 32 Codes
Rolling Code: UT-110R 1020 Codes

COMES WITH

Microphone (HM-148G)
Mounting bracket
Power cable (OPC-1132)
Owners manual

WARRANTY

3-Year

MULTITRUNK

iDAS™ ICOM DIGITAL ADVANCED SYSTEM

Meets MIL-STD 810

MDC 1200 Compatible

F5061/D - F6061/D Series

Configurations

Model	Description
F5061 11	136-174MHz, 50W, analog, LTR, HM-148G mic
F5061 11B	Radio w/power supply & cabinet
F5061 11 EMDC	136-174MHz, 50W, analog, LTR, EMDC included
F5061 11B EMDC	Radio w/power supply & cabinet
F6061 11	400-470MHz, 45W, analog, LTR, HM-148G mic
F6061 11B	Radio w/power supply & cabinet
F6061 11 EMDC	400-470MHz, 45W, analog, LTR, EMDC included
F6061 11B EMDC	Radio w/power supply & cabinet
F6061 16	450-512MHz, 45W, analog, LTR, HM-148G mic
F6061 16B	Radio w/power supply & cabinet
F6061 16 EMDC	450-512MHz, 45W, analog, LTR, EMDC included
F6061 16B EMDC	Radio w/power supply & cabinet

Configurations - IDAS Ready

Model	Description
F5061D 31	136-174MHz, 50W, analog, LTR,UT-126 installed to use 6.25kHz digital channels, HM-148G mic
F5061D 31B	Radio w/power supply & cabinet
F5061D 31 EMDC	136-174MHz, 50W, analog, LTR,UT-126 installed to use 6.25kHz digital channels & EMDC installed
F5061D 31B EMDC	Radio w/power supply & cabinet
F6061D 31	400-470MHz 45W, analog, LTR,UT-126 installed to use 6.25kHz digital channels, HM-148G mic
F6061D 31B	Radio w/power supply & cabinet
F6061D 31 EMDC	400-470MHz radio 45W, analog, LTR,UT-126 installed to use 6.25kHz digital channels & EMDC installed
F6061D 31B EMDC	Radio w/power supply & cabinet
F6061D 36	450-512MHz 45W, analog, LTR,UT-126 installed to use 6.25kHz digital channels, HM-148G mic
F6061D 36B	Radio w/power supply & cabinet
F6061D 36 EMDC	450-512MHz 45W, analog, LTR,UT-126 installed to use 6.25kHz digital channels & EMDC installed
F6061D 36B EMDC	Radio w/power supply & cabinet

Configurations - Railroad Ready

Model	Description
F5061D 41 RR	136-174MHz, 50W, IDAS ready, HM-148T DTMF mic and RR firmware installed
F5061D 41B RR	Radio w/power supply & cabinet

F5061/D - F6061/D Series

Accessories

Model	Description
Antennas	
ANTENNA 1	118-940MHz mountable unity antenna, field tunable, 1/4 WAVE, CHR,
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high
Cables	
OPC-1132	3m DC power cable
Extended Warranty	
EXTWARR611	1 year extended warranty for a total of 4 years
EXTWARR612	2 year extended warranty for a total of 5 years
EXTWARR613	3 year extended warranty for a total of 6 years
External Speakers	
SP-5	Medium sized square external speaker
SP-10	Compact ectangular external speaker - 5W, 4 Ohm
SP-22	Small rectangular mobile external speaker - 5 Watt, 4 Ohm
SP-30	Large external speaker with loud audio (available in October 09)
GPS Option	
IA-10301	GPS receiver that connects to the DB-25 accessory connector. Works on IDAS and EMDC analog mobiles
Internal Modules	
UT-109R	Simple voice inversion scrambler with up to 32 codes
UT-110R	Rolling code scrambler w/up to 1020 (255 codes x 4 groups)
UT-126	6.25kHz digital board
Installation Charges	
INSTALLLM1234	Install board into radio for 1-24 radios, 25-49 radios or 50+ radios
Manuals	
94415251	F5061 CD service manual
97715252	F5061 service manual
97715259	F6061 service manual
98815253	F5061/6061 owners manual
Microphones	
HM-148G	Heavy duty self grounding microphone (supplied)
HM-148T	Heavy duty DTMF microphone
HM-152	Basic microphone
HM-152T	DTMF microphone
SM-26	Desktop mic for dispatching - equipped w/monitor switch
Mounting Options	
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector
PassPort	
PassPort 2.8	Firmware upgrade to PassPort 2.8 done at Icom America
PassPort 4.0	Firmware upgrade to PassPort 4.2 done at Icom America
Power Supply	
ICT CS120-20AG/IC09	Power supply and cabinet

F5061/D - F6061/D Series

Accessories

Model	Description
Programming	
CS-F3161/F5061	Programming Software (will not work on railroad radios)
OPC-1122	Programming cable - PC to radio with RC-232S connector
OPC-1122U	Programming cable - PC to radio with USB connector
PROGLM6789	Programming for 1-24 radios, 25-49 radios or 50+ radios
Railroad Accessories	
RR Firmware	Install railroad specific firmware in the IDAS digital radios. Can only be done at time of order at Icom America.
UT-IA100	Audio amp board for F5061D w/RR firmware only (factory install only and install included)
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI1	Cable for RedHawk mic with mobile radio connector. Analog operation only
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone
Separation Kits	
RMK-3	Remote mount kit for front panel detachment - must use one separation cable listed below
OPC-609	6.2ft separation cable
OPC-607	9.8ft separation cable
OPC-726	16.3ft separation cable
OPC-608	26.2ft separation cable

F1721/F1821 - F2721/F2821 Series
F1721D/F1821D - F2721D/F2821D Series

Non-“D” Means P25 Upgradable / “D” Signifies P25 Ready

VERSIONS

VHF 50W, No Keypad
- F1721 136-174 MHz
- F1721D 136-174 MHz

VHF 50W, With Keypad
- F1821D 136-174 MHz

UHF 45W, No Keypad
- F2721 400-470 or 450-512 MHz
- F2721D 400-470 or 450-512 MHz

UHF 45W, With Keypad
- F2821 400-470 or 450-512 MHz
- F2821D 400-470 or 450-512 MHz

Configurations listed on adjoining pages

SPECS & FEATURES

Output Power:	50W (VHF); 45W (UHF)
Channels:	256 with 32 zones
Channel Spacing:	12.5 / 25kHz
PLL Chnl Spacing:	2.5 / 3.125 / 5 / 6.25kHz
LCD Display:	Dot matrix, switchable 1 line 12 characters or 2 lines 24 characters
Programmable Keys:	5 (simple version) or 7 (10-key version)
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Programmable:	PC with CSF70/F1700 software
Other Features:	Detachable front panel Radio stun / kill Tactical group function Built-in audio compander (analog only) 22W PA built-in Power-on password function

DIGITAL P25 FEATURES

Interoperability with other manufacturer’s P25 digital radios in conventional mode
Compatible w/ both analog FM & P25 digital mode

SIGNALING

MDC1200
CTCSS/DCS encode/decode
DTMF decode
2/5 tone encode/decode standard
Enhanced MDC (optional on analog)
ANI with 2/5 tone & DTMF

ENCRYPTION

Simple Inversion: UT-109 02 32 Codes
Rolling Code: UT-110 02 1020 Codes

COMES WITH

Hand mic (HM-148G)
Mounting bracket kit
DC Power cable (OPC-1132)
Owners manual

WARRANTY

2-Year
3-Year (“D” Series)

Meets MIL-STD 810

OTTO ACCESSORIES AVAILABLE

MDC 1200 Compatible

P25

F1721/D - F2721/D Series

Configurations - Analog (P25 Upgradable)

Model	Description
F1721 03	136-174MHz, analog-P25 upgradable, no DTMF keypad
F1721 03B	w/ASTSS18F1721 power supply
F1721 03 EMDC	136-174MHz, analog-P25 upgradable, no DTMF keypad, EMDC installed
F1721 03B EMDC	w/ASTSS18F1721 power supply
F2721 05	400-470MHz, analog-P25 upgradable, no DTMF keypad
F2721 05B	w/ASTSS18F1721 power supply
F2721 05 EMDC	400-470MHz, analog-P25 upgradable, no DTMF keypad, EMDC installed
F2721 05B EMDC	w/ASTSS18F1721 power supply
F2721 06	450-512MHz, analog-P25 upgradable, no DTMF keypad
F2721 06B	w/ASTSS18F1721 power supply
F2721 06 EMDC	450-512MHz, analog-P25 upgradable, no DTMF keypad, EMDC installed
F2721 06B EMDC	w/ASTSS18F1721 power supply
F2821 25*	400-470MHz, analog-P25 upgradable, 10-key & external speaker
F2821 25B*	w/ASTSS18F1721 power supply
F2821 26*	450-512MHz, analog-P25 upgradable, 10-key & external speaker
F2821 26B*	w/ASTSS18F1721 power supply

** Discontinued but still available until stock is out.*

Configurations - P25 Ready

Model	Description
F1721D 01	136-174MHz, 50W full P25, no keypad
F1721D 01B	w/ASTSS18F1721 power supply
F1821D 11	136-174MHz full P25, 50W, 10-key
F1821D 11B	w/ASTSS18F1721 power supply

F2721D 01	400-470MHz full P25, 45W no keypad
F2721D 01B	w/ASTSS18F1721 power supply
F2721D 02	450-512MHz full P25, 45W, no keypad
F2721D 02B	w/ASTSS18F1721 power supply
F2721D 03	400-470MHz "single upgrade" P25, 45W, no keypad
F2721D 03B	w/ASTSS18F1721 power supply
F2721D 04	450-512MHz "single upgrade" P25, 45W, no keypad
F2721D 04B	w/ASTSS18F1721 power supply
F2821D 21	400-470MHz full P25, 45W, 10-key
F2821D 21B	w/ASTSS18F1721 power supply
F2821D 22	450-512MHz full P25, 45W, 10-key
F2821D 22B	w/ASTSS18F1721 power supply

F1721/D - F2721/D Series

Accessories

Model	Description
110W Option	
IAS HPUK F1721*	F1721 mobile with 110W high power kit
IAS HPUK F1821*	F1821 mobile with 100W high power kit
IAS HPUK F2721*	F2721 mobile with 110W high power kit
IAS HPUK F2821*	F2821 mobile with 100W high power kit
**Dealers need to order the 100W mobile kit through Icom America Systems (IAS). Delivery is approx 4-6 weeks*	
Antennas	
ANTENNA 1	118-940MHz mountable unity antenna, field tunable, 1/4 WAVE, CHR,
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high
Cables	
OPC-617	ACC cable for external connection
Extended Warranty - Analog Radios	
EXTWARR211	1 year extended warranty for a total of 3 years
EXTWARR212	2 year extended warranty for a total of 4 years
EXTWARR213	3 year extended warranty for a total of 5 years
Extended Warranty - P25 Radios	
EXTWARP25M1	1 year extended warranty for a total of 4 years
EXTWARP25M2	2 year extended warranty for a total of 5 years
EXTWARP25M3	3 year extended warranty for a total of 6 years
External Speakers	
SP-5	Medium sized square external speaker
SP-10	Compact rectangular external speaker - 5W, 4 Ohm
SP-22	Small rectangular mobile external speaker - 5 Watt, 4 Ohm
SP-30	Large external speaker with loud audio
Internal Modules	
UT-109 02	Simple voice inversion scrambler with up to 32 codes
UT-110 02	Rolling code scrambler w/up to 1020 (255 codes x 4 groups)
Installation	
INSTALLLM1234	Install board into radio for 1-24 radios, 25-49 radios or 50+ radios
Install Ignition Sense	Install ignition sense to your mobile radio
Manuals	
94414901	CD Service Manual
97714917	Service Manual
98814877	Owners Manual
Microphones	
HM-152	Standard microphone
HM-152T	DTMF microphone
HM-148G	Heavy duty self grounding microphone (supplied)
HM-148T	Heavy duty DTMF microphone
SM-26	Desktop mic for dispatching - equipped w/monitor switch
Mounting Brackets	
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector
Power Supply	
AST-SS18F1721	Power supply for F1721 series
Programming	
CS-F70/F1700	Programming Software
CS-F70/F1700 EMDC	Programming Software for EMDC versions
OPC-1122	Programming cable - PC to radio with RC-232S connector
OPC-1122U	Programming cable - PC to radio with USB connector

F1721/D - F2721/D Series

Accessories

Model	Description
Programming Continued	
OPC-1532	Radio to radio cloning cable between mobile and mobile.
OPC-1533	Radio to radio cloning cable between portable and mobile.
PROGLM6789	Programming for 1-24 radios, 25-49 radios or 50+ radios
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI1	Cable for RedHawk mic with mobile radio connector. Analog operation only
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each mic
Separation Kits	
RMK-2	Remote mount kit for front panel detachment. Requires a separation cable.
OPC-609	6.2ft separation cable
OPC-607	9.8ft separation cable
OPC-726	16.3ft separation cable
OPC-608	26.2ft separation cable

AES/DES/P25 Upgrades

Model	Description
Upgrading from Analog to Digital	
P25 Mobile Upgrade	P25 activation code to upgrade non P25 radios to P25. The cost is per radio.
EX-2785J01	P25 activation software & firmware. A NC copy is sent with each order (part of the upgrade process not sold separately)
UT-120 02	Mobile board plugs into non "D" radios. Activation code required in addition. All boards must be installed at Icom America
AES	
AES Mobile Upgrade	AES activation code for upgrading P25 radios to AES. The cost is per radio.
EX-2785J03	AES activation software. A NC copy is sent each time you upgrade radios (this is part of the upgrade process not sold separately)
DES	
DES Mobile Upgrade	DES activation code for upgrading P25 radios to DES. The cost is per radio.
EX-2785J02	DES activation software. A NC copy is sent each time you upgrade radios (this is part of the upgrade process not sold separately)
Cables	
OPC-1534	Key loader cable for mobile radios loads AES/DES encryption keys. Motorola KVL 3000 key loader required to add or change the encryption key to radio**

P25/AES/DES upgrades are not refundable

AES/DES UPGRADE:

IA upgrade process is estimated at 5-7 business days, if radios are purchased at IA and upgraded at the same time;
We estimate turn-time for to be 3-5 business days before you will receive the AES/DES upgrade codes.

**If the radio programming is ever changed, the encryption code will be lost and you must reenter it again with the key loader

ENCRYPTION: All encryption products, kits, software and technology require an approved export license prior to shipment. The international use of encryption algorithms are highly restricted by the U.S. Federal Government. License approvals are considered for export to limited selection of countries and end users. Contact our Customer Service Manager to discuss any possible licensing restrictions and licensing information before submitting bids, proposals, or accepting orders for algorithm based encryption products. YOUR FAILURE TO COMPLY WITH EXPORT REGULATIONS MAY BE SUBJECT TO FINE OR PENALTIES.

F9511 - F9511HT - F9521 Series

P25 Trunking Mobiles

VERSIONS

VHF 50W, No Keypad
F9511S 01 136-174 MHz

50W, With Keypad
F9511T 05 136-174 MHz

110W, With Keypad
F9511HT 01 136-174 MHz

UHF 45W, No Keypad
F9521S 01* 400-470 MHz

45W, With Keypad
F9521T 05* 400-470 MHz

*Special minimum order only

Configurations listed on adjoining pages

SPECS & FEATURES

Output Power:	50W or 110W (VHF), 50W (UHF)
Channels:	512 / 128 zones
Channel Spacing:	15/30 (analog), 12.5kHz (digital)
PLL Channel Spacing:	2.5, 3.125kHz
LCD Display:	Dot matrix, switchable 1 line with 12 characters or 2 lines with 24 characters
Programmable Keys:	5 (simple version) or 7 (10-key version)
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Programmable:	PC with CS9010/9510 software
Other Features:	Detachable front panel OTAR in both P25 & P25 trunking with UT-125 Programmable ACC port for external control, dimmer and horn control Dual head capable with 110W version Tactical group function 22W PA function with BTL amplifier Enhanced vocoder ready Built-in audio compander (analog only)
Compliant Standards:	TIA/EIA TSB 102. CAAB compliant NTIA VHF specification compliant FIPS 140-2 (level 1) certified AES encryption

ENCRYPTION

AES: UT-125 (AES, DES & OTAR)
DES: UT-128

P25 Trunking Features:
- Voice including announcement group & broadcast call
- PSTN calls - unit to PSTN, PSTN to unit

P25 Conventional Features:
- Emergency call request/indication

SIGNALING

CTCSS/DTCS
2 Tone
MDC1200

COMES WITH

Microphone (HM-148G)
Mounting bracket
Power cable
External Speaker (SP-22) w/ F9511T only
Owners manual

WARRANTY

3-Year

F9511 Series

Configurations

Model	Description
F9511S 01	136-174MHz, 50W P25 trunking mobile, no keypad
F9511S 01B	Mobile with ICT CS120-20A/IC06 power supply
F9511T 05	136-174MHz, 50W P25 trunking mobile, full DTMF keypad, and SP-22 external speaker included
F9511T 05B	Mobile with ICT CS120-20A/IC06 power supply
F9511HT 01	136-174MHz 110W P25 trunking mobile with DTMF keypad. Requires external speaker (not included)
F9511HT 01B	Mobile with ICT CS120-20A/IC08 power supply
F9521S 01*	400-470 MHz, 45W P25 trunking mobile, no keypad
F9521S 01*B	Mobile with ICT CS120-20A/IC06 power supply
F9521T 05*	400-470 MHz, 45W P25 trunking mobile, full DTMF keypad and SP-22 external speaker included
F9521T 05B*	Mobile with ICT CS120-20A/IC06 power supply
**Special Order Only- contact Icom for lead time*	

Accessories

Model	Description
Antennas	
ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR,
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high
Dual Head Option (F9511HT)	
RMK-4	Dual head separation kit for F9511HT ONLY. Requires a separation cable, speaker mic and external speaker.
CS-RMK4	Software to program the RMK4 dual head
Extended Warranty	
EXTWARP25M1	1 year extended warranty P25 digital mobile , total of 4 years warranty
EXTWARP25M2	2 years extended warranty P25 digital mobile, total of 5 years warranty
EXTWARP25M3	3 years extended warranty P25 digital mobile, total of 6 years warranty
External Speakers	
SP-5	Medium sized square external speaker
SP-10	Compact rectangular external speaker - 5W, 4 Ohm
SP-22	Small rectangular mobile external speaker - 5 Watt, 4 Ohm
SP-30	Large external speaker with loud audio
Encryption	
UT-125	AES/DES encryption & OTAR
UT-128	DES encryption board - special order only minimum order 50 units
Installation	
INSTALLLM1234	Install board into radio for 1-24 radios, 25-49 radios or 50+ radios
Manuals	
94415436	CD Service Manual
97715423	Service Manual
98815488	F9511 owner's manual

F9511 Series

Accessories

Model	Description
Microphones	
HM-152	Hand microphone
HM-152T	DTMF microphone
HM-148G	Heavy duty self grounding microphone (supplied)
HM-148T	Heavy duty DTMF microphone
SM-26	Desktop mic for dispatching - equipped w/monitor switch
Mounting Options	
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector
Programming	
CS-F9010/F9510	Programming Software
OPC-1122	Programming cable - PC to radio with RC-232S connector
OPC-1122U	Programming cable - PC to radio with USB connector
OPC-1532	Radio to radio cloning cable between mobile and mobile.
OPC-1871	Radio to radio cloning cable between portable and mobile.
OPC-1534	Key loader cable
PROGLM6789	Programming for 1-24 radios, 25-49 radios or 50+ radios
Power Supplies	
ICT CS120-20A/IC06	Power supply and cabinet for F9511S/F9511T
ICT CS120-20A/IC08	Power supply and cabinet for F9511HT
RedHawk	
IAS RedHawk	GPS speaker microphone with LCD display. Battery & USB cable included. Cable that hooks mic to radio required.
IAS OPCRHI1	Cable for RedHawk mic with mobile radio connector. Analog operation only
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic
IAS BC-RHCHG12	100-240V 12 unit charger for RedHawk mic
IAS BC-RHADPTR	100-240V charger adapter for use with IAS OPC-RHUSB
IAS CP-RHLP	12-24V cigarette lighter plug. Requires 2 USB cables
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each mic
Separation Kit/Cables	
RMK-2	For front panel detachment use one of the cables below
OPC-609	6.2ft separation cable
OPC-607	9.8ft separation cable
OPC-726	16.3 ft separation cable (1 supplied with F9511HT)
OPC-608	26.2ft separation cable

RedHawk SA

GPS Speaker Mic With LCD Display

SPECIFICATIONS

- IP54 dust protected & splash proof
- 2.5 mm ear phone jack: Using an earpiece with the unit silences the unit's built-in speaker
- Built-in Electronic Compass for navigation to field units and set/received waypoints
- A 120 x 140 transflective LCD monochrome grayscale display – highly viewable, even in sunlight
- High sensitivity Atmel® GPS receiver chip set with built-in antenna
- Size: 59(W) x 114(H) x 30(D)mm;
  2.32" (W) x 4.48" (H) x 1.18" (D)
- Weight: Approx. 115g (4.16 oz), with lithium ion battery
- Powered by a 3.7V / 1200mAH Li-Polymer battery that is recharged via USB connection from the mic to a PC, or 110/240 to 5 VDC, or 12 VDC to 5 VDC cigarette lighter adapter accessory
- Long battery life: 18-20 hours with LCD backlight off
- Extended temperature operating range: -35º to +55º C (-31º to 136º F)
- Cables available to fit most Icom 2 way radios, including APCO 25 (P25) models
- May be powered by the Icom radio itself

MORE FEATURES

- Locate, poll and set a course, and navigate to a field unit
- See tracks made by other field units in relation to your position, and set a course
- Set, store, and receive waypoints, send waypoints, set a course to a waypoint
- Download all tracks from the unit via USB cable should you need to transfer data to a PC
- Access GIS information for all users on the same radio channel that are in the same group
- Set a course to a remote user, once in motion calculate the estimated time of arrival and distance to be travelled
- Poll a unit: If a field unit has not been heard from, send a command to receive and update the info

Radio sold separately

SOFTWARE

- Maptech Navigator Pro with Terrain navigator Pro Team Tracker Upgrade (for US only)
- ESRI ARC RedHawk SA Upgrade

COMES WITH

Battery
USB Cable
Quick Operators Guide
CD Operation Manual

WARRANTY

1-Year

Icom America Systems

Systems for People Who Make Smart Choices

Icom America Systems, a business enterprise of the Land Mobile Division of Icom America, Inc., providing complete systems package for today's communication needs, assembling high quality "one-stop systems" for installation at customer's locations around the globe. The Systems department has technical specialists who are available upon request to perform technical training, on-site consulting and/or field installations.Our large service facility and full time trained service technicians stand ready to assist .

Onsite Service/Installation	Description
IAS Onsite Tech Daily Rate	System Optimization -Installation/Service
IAS Onsite Tech Travel Day	Travel Day Fee Per Day To Location And From Location
IAS Onsite Travel Expenses	Travel Expenses Airfare/Hotel Etc. (Please Inquire To IAS For Pricing)

Onsite Consulting	Description
IAS Consulting Daily Rate	Consulting/Training Services
IAS Consulting Travel Day	Travel Day Fee Per Day To Location And From Location
IAS Consulting Travel Expenses	Travel Expenses Airfare/Hotel Etc. (Please Inquire To IAS For Pricing)

*Please note that for Icom America Systems to perform any of the above services, an official quote will need to be issued by Icom to you the customer. Inquire to IAS for further information.

* All scheduling of the above services will be at the discretion of Icom America Systems.

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425-586-6321 Fax
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ias@icomamerica.com

CY Repeater

Powerful & Feature Rich Repeater

VERSIONS

VHF	CY121S P	136-174 MHz
	CY121S DP	136-174 MHz
UHF	CY221S P	400-490 MHz
	CY221S DP	450-490 MHz

FEATURES

50W VHF & 45W UHF
Built-in repeater controller
PTT control of transmitter
Transmitter hang ON time delay from 0 to 7.5 seconds
Internal and external cooling fans provide 122 CFM airflow
Busy lockout and repeater lockout
Power on password
100% duty cycle @ 20W, 50% duty cycle @ 50/45W
Accessory connector (ACC) connects to remote controllers
8 channels maximum
Built-in internal power supply - 110/220V AC operation
Battery back up auto switch over and battery charging built-in

SIGNALING

2-Tone, 5-Tone
1 CTCSS, DTCS tone signals per ch
DTMF Encode/Decode

COMES WITH

Owners Manual

WARRANTY

1-Year

CY Repeater

Configurations

Model	Description	Band	Power
CY F121S P	VHF repeater, with power supply	136-174	50W
CY F121S DP	VHF repeater, with power supply and duplexer	136-174	50W
CY F221S P	UHF repeater, with power supply	440-490	45W
CY F221S DP	UHF repeater, with power supply and duplexer	440-490	45W

Accessories

Model	Description
Indoor Cabinets	
ASAP INDOOR CABINET 30	30" indoor cabinet
ASAP INDOOR CABINET 46	46" indoor cabinet
ASAP INDOOR CABINET 60	60" indoor cabinet
Racks	
HMDRRTT1928	28" rack (includes assembly & hardware)
HMDDNRR42HDW	42" rack (includes assembly & hardware)
HMDDNRR63HDW	63" rack (includes assembly & hardware)
HMDDNRR70HDW	70" rack (includes assembly & hardware)
Pre-Selectors	
FIP PR-45-4C	Internally mounted- 4 Cavity RX Pre-Selector-UHF
FIP PR-15-4H	Internally mounted- 4 Cavity RX Pre-Selector-VHF
Manuals	
98814731	F121S/F221S owners manual
97714680	F121S service manual
97714679	F221S service manual
94414481	CD service manual
Programming	
CS-F100S	Programming software
OPC-1122	Programming cloning cable for PC to radio with RC-232S connector
OPC-1122U	Programming cloning cable for PC to radio with USB connector
Programming IAS	Programming/Tuning fee per unit
IAS Charges	
IAS Rack Pack	Crating and packing fee to be added when purchasing IAS racks or cabinets.
Service/Sales Build-up IAS	Installation free per unit (includes programming and tuning)

X-BAND REPEATER

Cross Band VHF & UHF

VERSIONS

Airband
Non-Airband

VHF X-Band
X-Band AIR V

UHF X-Band
X-Band AIR U

FEATURES

Full UHF & VHF interoperability
50W VHF, 45W UHF
128 memory channels with 8 memory banks per radio
8 character alphanumeric display, easy-to-read
Configured to auto switch from AC to DC
Local controlled operation, can be used as a dual base unit
Programmable actions when a matched tone is received:
- Bell icon indication ON / OFF / Blink
- Answer back calls
- Beep sounds
- Scan Start / Stop
- Auto transmission
- Stun / Kill functions (prevents use of a lost or stolen)

10 scanning lists and Normal / Priority scan
Power ON password

SIGNALING

CTCSS/DTCS decode
2/5 Tone
MDC1200

COMES WITH

Owners Manual

WARRANTY

1-Year

X-BAND Repeater

Configurations

Model	Description
IAS X-Band 50	Cross band repeater with analog interoperability VHF FM-UHF FM
IAS X-Band 50 Air V	Cross band repeater with analog interoperability Airband AM-VHF FM
IAS X-Band 50 Air U	Cross band repeater with analog interoperability Airband AM-UHF FM

Accessories

Model	Description
Indoor Cabinets	
ASAP INDOOR CABINET 30	30" indoor cabinet
ASAP INDOOR CABINET 46	46" indoor cabinet
ASAP INDOOR CABINET 60	60" indoor cabinet
Racks	
HMDRRTT1928	28" rack (includes assembly & hardware)
HMDDNRR42HDW	42" rack (includes assembly & hardware)
HMDDNRR63HDW	63" rack (includes assembly & hardware)
HMDDNRR70HDW	70" rack (includes assembly & hardware)
Manuals	
98814731	F121S/F221S Owners Manual
97714680	F121S Service manual
97714679	F221S Service Manual
94414682	CD Service manual
Programming	
CSF-100S	Programming software
OPC-1122	Programming Cloning Cable for PC to Radio with RC-232S connector
OPC-1122U	Programming Cloning Cable for PC to Radio with USB connector
Programming IAS	Programming/Tuning Fee per unit
IAS Misc. Charges	
IAS Rack Pack	Crating and packing fee to be added when purchasing IAS racks or cabinets.
Service/Sales Build-up IAS	Installation free per unit (includes programming and tuning)

Voting Receiver

Enhance Portable & Mobile Talk-In Performance

VERSIONS

VHF	Voting RX	150-174 MHz
UHF	Voting RX	460 MHz

FEATURES

3-Cavity band pass filter improves selectivety & intermod performance
Filter RF specs: 150-160, 160-170 VHF, 450-470 UHF
Output impedance 600 ohms balanced
Audio frequency 1950Hz or 20kHz +/-2Hz
Pilot tone frequency 1950Hz or 2175Hz, switch selectable
Pilot tone stability +/-2Hz
Maximum 8 channels
Channel spacing, 12.5 / 25kHz (Narrow / Wide)
Receiver system is a doable-conversion superheteodyne system
Configured to auto switch from AC to DC

SIGNALING

CTCSS/DTCS encode/decode
DTMF encode
2/5 Tone
MDC1200 PTT ID & Emergency call
DTMF decode (UT-108R)

COMES WITH

Owners Manual

WARRANTY

1-Year

CY Repeater

Configurations

Model	Description
IAS VOT RX UHF	UHF Voting Reciever 460MHz Center Frequency
IAS VOT RX VHF	VHF Voting Reciever 150-174MHz Center Frequency

Accessories

Model	Description
Indoor Cabinets	
ASAP INDOOR CABINET 30	30" indoor cabinet
ASAP INDOOR CABINET 46	46" indoor cabinet
ASAP INDOOR CABINET 60	60" indoor cabinet
Racks	
HMDRRTT1928	28" rack (includes assembly & hardware)
HMDDNRR42HDW	42" rack (includes assembly & hardware)
HMDDNRR63HDW	63" rack (includes assembly & hardware)
HMDDNRR70HDW	70" rack (includes assembly & hardware)
Manuals	
98814731	F121S/F221S Owners Manual
97714680	F121S Service manual
97714679	F221S Service Manual
94414481	CD Service manual
Programming	
CSF-100S	Programming software
OPC-1122	Programming Cloning Cable for PC to Radio with RC-232S connector
OPC-1122U	Programming Cloning Cable for PC to Radio with USB connector
Programming IAS	Programming/Tuning Fee per unit
IAS Misc Charges	
IAS Rack Pack	Crating and packing fee to be added when purchasing IAS racks or cabinets.
Service/Sales Build-up IAS	Installation fee per unit (includes programming and tuning)

FR3000 - FR4000 Series

Rugged Analog Repeater

VERSIONS

VHF	FR3000	150-174 MHz
UHF	FR4000	450-480 MHz

SPECS & FEATURES

Output Power:	50W at 100% Duty Cycle
Channels:	32
Channel Spacing:	12.5 / 25kHz Switchable
LCD Display:	16-Digit Dot Matrix Display
Mil Spec:	810 C, D, E, F

Other Features:
- CW ID included
- Automatic battery backup
- DB-25 accessory connector
- Built-in community tone panel
- Internal space for duplexor & pre-selector
- Telephone interconnect built-In
- Master/Slave backup operation
- Password Kill/Stun security function
- Temperature alert

SIGNALING

Up to 16 CTCSS/DTCS Tone Signals Per Channel
DTMF Encode/Decode
Built-In 2-Tone, 5-Tone

COMES WITH

Owners Manual

WARRANTY

2-Year

Configurations

Model	Description
FR3000 02	150-174 MHz, 12.5/25 kHz Channel Spacing
FR4000 03	450-480 MHz, 12.5/25 kHz Channel Spacing

Accessories

Model	Description
Duplexer Kits (Installation & tuning not included)	
IAS VHF DUP KIT	(Internal-Notch Type) 5 MHz minimum separation 50W
IAS UHF DUP KIT	(Internal-Notch Type) 3 MHz minimum separation 50W
Extended Warranty	
EXTWARRPT1	1 year extended warranty for a total of 3 years
EXTWARRPT2	2 year extended warranty for a total of 4 years
EXTWARRPT3	3 year extended warranty for a total of 5 years
Internal Modules	
UT-109 01	Simple voice inversion scrambler with up to 32 codes
UT-110 01	Rolling code scrambler with up to 1020 (255 codes x 4 groups) available
Manuals	
98814698/873	FR4000/FR3000 owner's manual
97714766/794	FR4000/FR3000 service manual
94414791	CD service manual
Microphones	
HM-152	Standard microphone
HM-152T	DTMF microphone
SM-25	Desktop microphone
Mounting Brackets	
MB-77	Wall mount bracket
ASAP FR Rack	Rack-cabinet mounting frame for FR series
Pre-Selector	
FIP-PR-45-4C	UHF internally mounted- 4 cavity RX pre-selector
FIP-PR-15-4H	VHF internally mounted- 4 cavity RX pre-selector
Programming	
CS-FR3000	PC programming software
OPC-478	Programming Cloning Cable for PC to Radio with RC-232S connector (Must use together w/OPC-592)
OPC-478UC	Programming cable for PC to Radio with USB connector (Must use together w/OPC-592)
OPC-592	Programming Cloning Cable for PC to Radio (Must use together w/OPC-478)
Programming IAS	Programming/Tuning Fee per unit
IAS Misc. Charges	
Service/Sales Build-up IAS	Installation fee per unit (includes programming and tuning)
Relay Kit	
IAS COAX RLY KIT	Antenna Relay Kit (for base station application)

IAS 100W Series

100W Repeater Offering More Features For Less

VERSIONS

VHF	100W V	150-174 MHz
UHF	100W U	450-480 MHz

FEATURES

FR3000/FR4000 100W at 100% duty cycle
Integrated heavy duty amplifier with a power supply 110V.220V AC operation
12V DC operation available
A/C surge supression panel with six outlets
Programming assembly and configuration

SIGNALING

CTCSS/DCS Tone Signals Per Ch.
DTMF Encode/Decode
Built-In 2-Tone, 5-Tone

COMES WITH

Owners Manual
Mounting Bracket

WARRANTY

2-Year

MDC 1200 Compatible

IAS 100W Repeaters

Configurations

Model	Description
IAS 100WV	150-174 MHz, 100W repeater
IAS 100WU	450-480 MHz, 100W repeater

Accessories

Model	Description
Relay Kit	
IAS COAX RLY KIT FR3000	Antenna Relay Kit (for base station application)
Cabinets	
ASAP INDOOR CABINET 30	30" indoor cabinet
ASAP INDOOR CABINET 46	46" indoor cabinet
ASAP INDOOR CABINET 60	60" indoor cabinet
Racks	
HMDRRTT1928	28" rack (includes assembly and hardware)
HMDDNRR42HDW	42" rack (includes assembly and hardware)
HMDDNRR63HDW	63" rack (includes assembly and hardware)
HMDDNRR70HDW	70" rack (includes assembly and hardware)
Duplexers (Installation & Tuning Not Included)	
IAS DVN 4522L	400-512MHz, 3 Min Split, 4 Cavity Duplexer
IAS DVNC 1533L	148-174MHz, 2 Min Split, 4 Cavity Duplexer
TEL TPRD 1556	400 Kc minimum split VHF duplexer
TEL TPRD 1554	600 Kc minimum split VHF duplexer
Pre-Selectors	
FIP-PR-45-4C	UHF internally mounted- 4 cavity RX pre-selector
FIP-PR-15-4H	VHF internally mounted- 4 cavity RX pre-selector
IAS Misc. Charges	
Service/Sales Build-up IAS	Installation fee per unit (includes programming and tuning)
Manuals	
98814698	FR4000 owners manual
98814873	FR3000 owners manual
97714766	FR4000 service manual
97714794	FR3000 service manual
94414791	FR3000/4000 CD service manual
Microphones	
HM-152	Standard microphone
HM-152T	DTMF microphone
SM-26	Desktop microphone
Programming	
CS-FR3000	PC programming software
OPC-478	Programming Cloning Cable for PC to Radio (Must use together w/OPC-592)
OPC-478UC	Programming cable for PC to Radio with USB connector (Must use together w/OPC-592)
OPC-592	Programming Cloning Cable for PC to Radio (Must use together w/OPC-478)
Programming IAS	Programming/Tuning Fee per unit

CY5000

All-In-One IDAS™ Digital & Analog Repeater

VERSIONS

Repeater Only
Repeater With Duplexer
Repeater With Pre-Selector
Repeater With Duplexer & Pre-Selector

VHF	CY5000 41	136-174 MHz
	CY5000 41D	136-174 MHz
	CY5000 41PRE	136-174 MHz
	CY5000 41DPRE	136-174 MHz
UHF	CY6000 41	400-470 MHz
	CY6000 51	450-512 MHz
	CY6000 41D	400-470 MHz
	CY6000 51D	450-512 MHz
	CY6000 41PRE	400-470 MHz
	CY6000 51PRE	450-512 MHz
	CY6000 41DPRE	400-470 MHz
	CY6000 51DPRE	450-512 MHz

FEATURES

Built-in power supply: 13.8V in or 110V AC in or 220V AC in
Built-in battery backup & charging capable
Built-in heavy duty A/C EMI filtering
3 RU tall - built-in rack handles
19” standard rack or cabinet mounting
Powder-coated steel chassis
N style bulkhead connectors
Built-in grounding stud
Max air cross flow: 80 CFM for excellent ventilation
DB-25 rear connector interface for external equipment
DC terminal strip for easy BBU connection
3 ethernet connections for IP / remote management / trunking
Built-in duplexer (optional)
Built-in RF pre-selector (optional)

SIGNALING

Digital RAN codes
DTMF Encode/Decode
5-Tone
CTCSS

COMES WITH

Owners Manual

WARRANTY

1-Year

CY5000 - CY6000 Repeaters

Configurations

Model	Description
CY5000 41	136-174 MHz IDAS digital & analog repeater
CY6000 41	400-470 MHz IDAS digital & analog repeater
CY6000 51	450-512 MHz IDAS digital & analog repeater
CY5000 41-D	136-174 MHz IDAS digital & analog repeater w/duplexer
CY6000 41-D	400-470 MHz IDAS digital & analog repeater w/duplexer
CY6000 51-D	450-512 MHz IDAS digital & analog repeater w/duplexer
CY5000 41-PRE	136-174 MHz IDAS digital & analog repeater w/pre-selector
CY6000 41-PRE	400-470 MHz IDAS digital & analog repeater w/pre-selector
CY6000 51-PRE	450-512 MHz IDAS digital & analog repeater w/pre-selector
CY5000 41-D-PRE	136-174 MHz IDAS digital & analog repeater w/duplexer & pre-selector
CY6000 41-D-PRE	400-470 MHz IDAS digital & analog repeater w/duplexer & pre-selector
CY6000 51-D-PRE	450-512 MHz IDAS digital & analog repeater w/duplexer & pre-selector

Accessories

Model	Description
Duplexers - Installation and Tuning included	
CY5000 DUP KIT	FR5000 Internal Duplexer (3 MHz minimum separation)
CY6000 DUP KIT	FR6000 Internal Duplexer (5 MHz minimum separation)
IP Linking	
CF-FR5000MT	Trunking/conventional multi-site IP repeater link card (requires the UC-FR5000 board)
CF-FR5000 02	Conventional IP Repeater link card (requires the UC-FR5000 board)
Trunking / Network Controller	
UC-FR5000 01	IDAS trunking & network controller
Manuals	
98815350	Owners manual
97715370	FR5000 service manual
97715348	FR6000 service manual
94415514	FR5000 CD service manual
94415355	FR6000 CD service manual
Pre-Selectors	
FIP PR-45-4C	UHF internally mounted- 4 cavity RX pre-selector
FIP PR-15-4H	VHF internally mounted- 4 cavity RX pre-selector
IAS Misc. Charges	
Service/Sales Build-up IAS	Installation fee per unit (includes programming and tuning)
Programming	
CS-FR5000	Programming software
OPC-1122	Programming cable for PC to radio
OPC-1122U	Programming cable for PC to radio with USB connector
Programming IAS	Programming/Tuning Fee per unit
Remote Communication	
RC-FS10 05	Remote communicator software - comes with CT-24
CT-23 01	PTT microphone adapter to use SM-25 or HM-152 with a PC

FR5000 - FR6000 Series

Stable, Flexible, High Performance Digital & Analog Repeater

(Single-site and Multi-site trunking)

VERSIONS

VHF	FR5000	136-174 MHz
UHF	FR6000 01	400-470 MHz
	FR6000 11	450-512 MHz

SPECS & FEATURES

Output Power:	50W at 50% duty cycle 25W at 100% duty cycle
Channels:	32
Channel Spacing:	6.25 / 12.5 / 25kHz switchable
LCD Display:	16-digit dot matrix Display
Mil Spec:	810 C, D, E, F
Weight:	5.6 kg; 12.3 lb (approx)
Other Features:	CW ID included Automatic battery backup DB-25 accessory connector Built-In community tone panel Internal space for duplexor & pre-selector Telephone iterconnect built-In Master/Slave backup operation Password Kill/Stun security function Temperature alert

SIGNALING

Digital RAN Codes
DTMF Encode/Decode
5-Tone
CTCSS

COMES WITH

Owners Manual

WARRANTY

2-Year

MULTITRUNK iDAS

FR5000 - FR6000 Repeaters

Configurations

Model	Description
Repeaters	
FR5000 01	136-174 MHz, 6.25/12.5/25 kHz Channel Spacing
FR6000 01	400-470 MHz, 6.25/12.5/25 kHz Channel Spacing
FR6000 11	450-512 MHz, 6.25/12.5/25 kHz Channel Spacing
Power Supply not included with repeater - order separately	
Internal Modules	
UR-FR5000 41	VHF 136-174 MHz Repeater Channel Module
UR-FR6000 41	UHF 400-470 MHz Repeater Channel Module
UR-FR6000 51	UHF 450-520 MHz Repeater Channel Module
FR/UR Kits	
FR5000 01 UR KIT	FR5000 + URFR5000
FR6000 01 UR KIT	FR6000 01 + URF6000 41
FR6000 11 UR KIT	FR6000 11 + URF6000 51
Two Channel Kits	
FR5000 2CH KIT	IDAS VHF 2 Channels Conventional System Kit
FR6000 01 2CH KIT	IDAS UHF 400-470 2 Channels Conventional System Kit
FR6000 11 2CH KIT	IDAS UHF 450-512 2 Channels Conventional System Kit
IDAS 2 Channels Conventional System Kits (2 RF units, 2 external power supplies, 2 internal duplexors)	

Accessories

Model	Description
Antenna Switches	
IAS 1RU ANT SW-DUAL	Dual antenna switch for base station operation
IAS 1RU ANT SW-SINGLE	Single antenna switch for base station operation
Duplexers - Installation & Tuning Included	
IAS FR5000 DUP KIT	Internal duplexer (3 MHz minimum separation)
IAS FR6000 DUP KIT	Internal duplexer (5 MHz minimum separation)
Extended Warranty	
EXTWARRPT1	1 year extended warranty for a total of 3 years
EXTWARRPT2	2 year extended warranty for a total of 4 years
EXTWARRPT3	3 year extended warranty for a total of 5 years
IP Linking	
CF-FR5000MT	Trunking/conventional multi-site IP repeater link card (requires the UC-FR5000 board)
CF-FR5000 02	Conventional IP repeater link card (requires the UC-FR5000 board)
Trunking/Network Controller	
UC-FR5000 01	IDAS trunking & network controller
Manuals	
98815350	FR5000/FR6000 owners manual
97715370	FR5000 service manual
97715348	FR6000 service manual
94415514	FR5000 CD service manual
94415355	FR6000 CD service manual
Microphones	
HM-152	Standard microphone
HM-152T	DTMF microphone
SM-26	Desktop microphone

Accessories Continued

Model	Description
Mounting Plate	
ASAP FR6000 UNIVERSAL PL	Internal universal accessory mounting plate
Pilot Tone Generator	
JPSPTG10	Pilot Tone Generator (requires ASAP mounting plate for installation)
Power Supplies - External	
ICT 22012-20AR	External rack mountable power supply
ICT 22012-20A	Second power supply module for ICT 22012-20AR
ICT RMB LARGE	Bracket for second power supply (use with ICT 22012-20A)
ICT 22012-20BCR	Single module power supply - rack mountable
ICT 22012-30N	Additional module (mounts instead the ICT 22012-70N)
ICT 22012-35N	Single module power supply - rack mountable (4 module capable)
ICT 22012-70N	Dual module power supply - rack mountable (4 module capable)
Pre-Selector	
FIP-PR-45-4C	UHF internally mounted- 4 cavity RX pre-selector (requires ASAP mounting plate for installation)
FIP-PR-15-4H	VHF internally mounted- 4 cavity RX pre-selector (requires ASAP mounting plate for installation)
Programming	
CS-FR5000	PC programming software
OPC-1122	Programming cable for PC to Radio with RC-232S connector
OPC-1122U	Programming cable for PC to Radio with USB connector
Programming Charges	
Programming IAS	Programming/Tuning Fee per unit
Service/Sales Build-up IAS	Installation fee per unit (includes programming and tuning)
Remote Communication	
RC-FS10 05	Remote communicator software - comes with CT-24
CT-23	PTT microphone adapter to use SM-25 or HM-152 with a PC
Scramblers (Analog base mode operation only)	
UT-109R	Simple voice inversion scrambler with up to 32 codes
UT-110R	Rolling code scrambler with up to 1020 codes (255 codes x 4 groups)

IAS 100D Series

High-Power Digital & Analog Repeater

VERSIONS

VHF	100DV	136-174 MHz
	100DV PS	136-174 MHz
UHF	100DU 01	400-470 MHz
	100DU 01 PS	400-470 MHz
	100DU 11	450-520 MHz
	100DU 11 PS	450-520 MHz

Standard

Public Safety Version

FEATURES

• Standard

FR5000/FR6000
20 amp power supply
Float charging capable for external battery
15 amp A/C surge suppression panel wIth 780 joules
& MOV technology
TPL amp with built-in power supply with auto bypass of exciter
input in case of A/C failure

• Public Safety Version

FR5000/FR6000
70 amp power supply with smart charge capable for external battery
modular design load capacity & expandable to 120 amp load
15 amp A/C surge suppression panel wIth 1750 joules
& SASD technology
TPL amp that operates on DC voltage, in case of A/C power failure,
repeater continues to develop 100W

SIGNALING

Digital RAN Codes
DTMF Encode/Decode
5-Tone
CTCSS

COMES WITH

Owners Manual

WARRANTY

2 year

Third party components noted are subject to change or substitution.

MDC 1200 Compatible

iDAS™

IAS 100D Repeaters

Configurations

Model	Description
IAS 100DV	136-174 MHz, 100W 100% duty cycle base/repeater (std version)
IAS 100DV PUBLIC SAFETY	136-174 MHz, 100W 100% duty cycle base/repeater
IAS 100DU-01	400-470 MHz, 100W 100% duty cycle base/repeater (std version)
IAS 100DU01 PUBLIC SAFETY	400-470 MHz, 100W 100% duty cycle base/repeater
IAS 100DU-11	450-520 MHz, 100W 100% duty cycle base/repeater (std version)
IAS 100DU11 PUBLIC SAFETY	450-520 MHz, 100W 100% duty cycle base/repeater

Accessories

Model	Description
Antenna Switches	
IAS 1RU ANT SW-DUAL	Dual antenna switch for base station operation
IAS 1RU ANT SW-SINGLE	Single antenna switch for base station operation
Cabinets	
ASAP INDOOR CABINET 30	30" indoor cabinet
ASAP INDOOR CABINET 46	46" indoor cabinet
ASAP INDOOR CABINET 60	60" indoor cabinet
Racks	
HMDRRTT1928	28" rack (includes assembly and hardware)
HMDDNRR42HDW	42" rack (includes assembly and hardware)
HMDDNRR63HDW	63" rack (includes assembly and hardware)
HMDDNRR70HDW	70" rack (includes assembly and hardware)
Duplexers	
IAS DVN 4522L	400-512MHz, 3 Min Split, 4 Cavity Duplexer
IAS DVNC 1533L	148-174MHz, 2 Min Split, 4 Cavity Duplexer
TEL TPRD 1556	400 Kc minimum split VHF duplexer
TEL TPRD 1554	600 Kc minimum split UHF duplexer
IP Linking	
CF-FR5000MT	Trunking/Conventional Multi-Site IP Repeater link card (requires the UC-FR5000 board)
CF-FR5000 02	Conventional IP Repeater link card (requires the UC-FR5000 board)
Trunking / Network Controller	
UC-FR5000 01	IDAS Trunking & Network Controller
Manuals	
98815350	Owners Manual
97715370	FR5000 Service Manual
97715348	FR6000 Service Manual
94415514	FR5000 CD Service Manual
94415355	FR6000 CD Service Manual
Microphones	
HM-152	Hand Microphone
HM-152T	Hand Microphone with DTMF
SM-25	Desktop Microphone
Mounting Plate	
ASAP FR6000 UNIVERSAL PL	Internal universal accessory mounting plate
Pilot Tone Generator (Analog operation only)	
JPSPTG10	Pilot Tone Generator (requires ASAP mounting plate for installation)

Accessories Continued

Model	Description
Pre-Selectors	
FIP-PR-45-4C	UHF internally mounted- 4 cavity RX pre-selector (requires ASAP mounting plate for installation)
FIP-PR-15-4H	VHF internally mounted- 4 cavity RX pre-selector (requires ASAP mounting plate for installation)
Programming	
CS-FR5000	Programming software
OPC-1122	Programming cable for PC to radio
OPC-1122U	Programming cable for PC to radio with USB connector
Programming IAS	Programming/tuning fee per unit
Service/Sales Build-up IAS	Installation fee per unit (includes programming and tuning)
Remote Communication	
RC-FS10 05	Remote communicator software - comes with CT-24
CT-23 01	PTT microphone adapter to use SM-25 or HM-152 with a PC
Scramblers (Analog base mode operation only)	
UT-109R 21	Simple voice inversion scrambler with up to 32 codes
UT-110R 21	Rolling code scrambler with up to 1020 (255 codes x 4 groups) available

RF Technologies - Eclipse2 Series

Software-Defined P25 Repeater / Analog Base Station

VERSIONS

P25
P25 Upgradeable

VHF	P25 60W	136-174 MHz
	P25 100W	136-174 MHz
	60W	136-174 MHz
	100W	136-174 MHz
UHF	P25 60W	400-430, 440-490, 485-520 MHz
	P25 100W	400-430, 440-490, 485-520 MHz
	60W	400-430, 440-490, 485-520 MHz
	100W	400-430, 440-490, 485-520 MHz

FEATURES

Auto sensing repeater (P25 / Analog) 100% duty cycle operation
Remote diagnostics via ethernet: alarm monitor & report
Battery backup - charging & auto switch over capable
Built-in 35 amp power supply: 240-120V AC operation
IP commander - ethernet programming with rollback feature
Modular design - space saving 4RU
Full duplex analog repeater base station
Firmware upgradeable to P25 via ethernet
IP firmware & software updating capable

SIGNALING

DTMF Encode/Decode
Built-In 2-Tone, 5-Tone

COMES WITH

Owners Manual

WARRANTY

1-Year

RFT Eclipse 2 Repeaters

Configurations

Model	Description
P25/Analog Versions	
RFT P25 100W Rptr 136-174	136-174 MHz, 100W P25/analog repeater with power supply
RFT P25 100W Rptr 440-490*	440-490 MHz, 100W P25/analog repeater with power supply
RFT P25 60W Rptr 136-174	136-174 MHz, 60W P25/analog repeater with power supply
RFT P25 60W Rptr 440-490*	440-490 MHz, 60W P25/analog repeater with power supply
**Also comes in 400-430 or 485-520Mhz. Please note on your PO if you'd like the repeater in those frequencies*	
P25 Upgradeable Versions	
RFT 100W Rptr 136-174	136-174 MHz, 100W analog repeater with power supply – P25 upgradeable
RFT 100W Rptr 440-490*	440-490 MHz, 100W analog repeater with power supply – P25 upgradeable
RFT 60W Rptr 136-174	136-174 MHz, 60W analog repeater with power supply – P25 upgradeable
RFT 60W Rptr 440-490*	440-490 MHz, 60W analog repeater with power supply – P25 upgradeable
RFT P25-C	P25 firmware upgrade conventional
**Also comes in 400-430 or 485-520Mhz. Please note on your PO if you'd like the repeater in those frequencies*	

Accessories

Model	Description
Antenna Switches	
IAS 1RU ANT SW-DUAL	Dual antenna switch for base station operation
IAS 1RU ANT SW-SINGLE	Single antenna switch for base station operation
Cabinets	
ASAP INDOOR CABINET 30	30" indoor cabinet
ASAP INDOOR CABINET 46	46" indoor cabinet
ASAP INDOOR CABINET 60	60" indoor cabinet
Racks	
HMDRRTT1928	28" rack (includes assembly and hardware)
HMDDNRR42HDW	42" rack (includes assembly and hardware)
HMDDNRR63HDW	63" rack (includes assembly and hardware)
HMDDNRR70HDW	70" rack (includes assembly and hardware)
Duplexers (Price does not include installation & tuning)	
IAS DVN 4522L	400-512MHz, 3 Min Split, 4 Cavity Duplexer
IAS DVNC 1533L	148-174MHz, 2 Min Split, 4 Cavity Duplexer
TEL TPRD 1556	400 Kc minimum split VHF duplexer
TEL TPRD 1554	600 Kc minimum split UHF duplexer
Fan Module	
RF FM-1	Fan module (recommended for 100W units)
Manuals	
RFT P25 UHF Manual	UHF P25/Analog Manual
RFT P25 VHF Manual	VHF P25/Analog Manual
Programming software and cable	
RFT IP E2-P25	Programming Software P25 and Analog
Programming	
IAS Rack Pack	Crating and packing fee to be added when purchasing IAS racks or cabinets.
Programming IAS	Programming/Tuning Fee per unit
Service/Sales Build-up IAS	Installation fee per unit (includes programming and tuning)

DANIELS / P25 Repeaters

Turn-key radio Solutions For Public Safety Agencies

VERSIONS

VHF	DAN ANLG	136-174 MHz
	DAN P25	136-174 MHz
UHF	DAN ANLG	450-470 MHz
	DAN P25	450-470 MHz

FEATURES

Auto sensing repeater (P25/Analog) - 100% duty cycle
Battery back-up - charging & auto switch over capable
Built-in dual 70 amp power supply (240-110V AC) operation
Modular space saving design
Full duplex analog repeater base station
Firmware upgradeable to P25
Extraordinary high level of reliability
Ability to withstand extreme temps (-40 C - +60 C)
Low current consumption

SIGNALING

Varies per system configuration

COMES WITH

Owners Manual

WARRANTY

1-Year

DANIELS™ ELECTRONICS LTD.

Daniels / P25 Repeaters

Configurations

Model	Description
P25 Repeaters	
DAN UHF P25 Rptr 50-100W	P25 or Analog UHF 450-470MHz With power supply
DAN VHF P25 Rptr 50-100W	P25 or Analog VHF 136-174MHz With power supply
Analog Repeaters	
DAN UHF Anlg Rptr 50-100W	Analog UHF 450-470MHz w/PS
DAN VHF Anlg Rptr 50-100W	Analog 136-174MHz 50/100W With power supply
DAN P25 Upgrade	P25 firmware upgrade

Accessories

Model	Description
Antenna Switches	
IAS 1RU ANT SW-DUAL	Dual antenna switch for base station operation
IAS 1RU ANT SW-SINGLE	Single antenna switch for base station operation
Cabinets	
ASAP INDOOR CABINET 30	30" indoor cabinet
ASAP INDOOR CABINET 46	46" indoor cabinet
ASAP INDOOR CABINET 60	60" indoor cabinet
Racks	
HMDRRTT1928	28" rack (includes assembly and hardware)
HMDDNRR42HDW	42" rack (includes assembly and hardware)
HMDDNRR63HDW	63" rack (includes assembly and hardware)
HMDDNRR70HDW	70" rack (includes assembly and hardware)
Duplexers (Price does not include installation & tuning)	
IAS DVN 4522L	400-512MHz, 3 Min Split, 4 Cavity Duplexer
IAS DVNC 1533L	148-174MHz, 2 Min Split, 4 Cavity Duplexer
TEL TPRD 1556	400 Kc minimum split VHF duplexer
TEL TPRD 1554	600 Kc minimum split UHF duplexer
Programming software and cable	
DAN Programming Kit	Programming software P25 and analog
Programming IAS	Programming/tuning fee per unit
IAS Misc. Charges	
IAS Rack Pack	Crating and packing fee to be added when purchasing IAS racks or cabinets.
Service/Sales Build-up IAS	Installation free per unit (includes programming and tuning)

IC-A14 - IC-A14S

VHF Air Band Handheld

VERSIONS

A14 21 Handheld Transciever - Keypad

A14S 01 Handheld Transciever - No Keypad

SPECS & FEATURES

Output Power:	5W
Channels:	200 (A14), 100 (A14S)
Display:	8 Character alphanumeric
Other Features:	IPX4 Splash proof
	NOAA Marine weather channels
	Side tone
	Low battery indicator
	700mW loud audio with built-in amp
	Tag scanning
	Auto noise limiter

COMES WITH

Antenna (FA-B02AR)
Battery (BP-232N)
Charger (BC-179)
Belt clip (MB-94)
Owners Manual

WARRANTY

3-Year

A14 Series

Configurations

Model	Description
A14S 01	100 channels, no keypad
A14 21	200 channels, full keypad

Accessories

Model	Accessories
Antenna	
FAB02AR	Antenna
Battery Options	
BP261	Alkaline Battery Case (6 - AA Batteries req'd)
BP232N	7.2v 2000mAh Li-Ion Battery
Belt Clips	
MB93	Belt Clip - swivel type
MB94	Belt Clip - alligator type
MB96F	Leather Belt Hanger (for use w/ MB103)
MB96N	Swivel Leather Belt Hanger
Case	
LC159	Carrying Case
Chargers & Power Supply Cables	
AD106	Charger Adapter Cup (for use w/ BC119 & BC121)
AD-122	Adapter cup for BC-197 gang charger for BP-232 radios
BC119N 01	110V Single Rapid Desktop chgr w/BC145 (AD106 req'd)
BC119N 02	220V Single Rapid Desktop chgr w/BC145 (AD106 req'd)
BC121N	Six unit rapid charger (1- BC157 & 6 - AD106 req'd)
BC-121N AD106	BC121 + BC157S 07 + (6) AD-106 Multi-Unit Charger Kit
BC145SA 31	110V AC adapter for use w/ BC119N & BC160
BC145SE 32	220V AC adapter for use w/ BC119N & BC160
BC157S 07	110V BC121N Power Supply
BC157S 09	220V BC121N Power Supply
BC160 01	110V Rapid Charger
BC160 02	220V Rapid Charger
BC179 01	Drop In Desktop Charger 110V (BC179 02 - 220v)
BC-197 22	110V gang charger for radios with the BP-232N battery
BC-197 23	220V gang charger for radios with the BP-232N battery
CP-22	Cig Lighter Adapter cable for BC179 (12-24v)
OPC-515L	DC Power Cable for BC119N or BC160
OPC-656	DC Power Cable for BC121N
Headset Adapter	
PA OPC499	Headset Adapter
Manuals	
98815338	Owner's Manual
97715337	Service Manual
94415339	Service Manual - CD
Programming	
CSA14	Programming Software - Dealer Use Only
OPC478	Programming Cable RC-232S Plug
OPC478UC	Programming Cable USB 3.5mm Plug
Speaker Microphone	
HM173	Speaker Microphone

IC-A6

VHF Air Band Handheld

VERSIONS

A6 21 Handheld Air Band Transceiver
Comm Only

SPECS & FEATURES

Output Power:	5W
Channels:	200 (20 channels x 10 banks)
Display:	6 Character alphanumeric
Other Features:	Simple one-handled operation
	Large easy to read display
	“Flip-Flop” channel recall
	External DC power jack
	Water resistant (IP-X4)
	NOAA marine weather channels
	Auto noise reduction
	TAG scanning & memory bank scan

COMES WITH

Anatenna (FA-B02AR)
Battery (BP-210N)
Charger (BC-167SA)
Belt clip (MB-103)
Owners Manual

WARRANTY

3-Year

A6 Series

Configurations

Model	Descriptons
IC-A6 21	Transceiver - Comm Only

Accessories

Model	Accessories
Antenna	
FAB02AR	Antenna
Battery Cases & Packs	
BP208N	Alkaline Battery Case (6 AA Batteries Req'd)
BP210N	Battery - Ni-MH 7.2V 1650 mAh
Belt Clips & Leather Belt Hangers	
MB103	Belt Clip
MB86	Swivel Belt Clip
MB96N	Swivel Leather Belt Hanger
MB96F	Leather Belt Hanger (Use with MB-103)
Case	
LC159	Carrying Case
Chargers & Power Supplies	
AD101	Charger Adapter Cup
BC119N 01	110V Rapid Desktop charger w/BC145 (AD101 req'd)
BC119N 02	220V Rapid Desktop charger w/BC145 (AD101 req'd)
BC121N A24	110V Rapid Multi Unit Charger bundled with BC-157S 07 & 6 - AD101's
BC121N A24 220V	220V Rapid Multi Unit Charger bundled with BC-157S 09 & 6 - AD101's
BC144N 51	110V Drop In Desktop Charger (includes BC-145)
BC144N 52	220V Drop In Desktop Charger (includes BC-145)
BC145SA 31	AC Adapter for BC-119N 110V
BC145SE 32	AC Adapter - 220V European
BC167SA 52	110V AC adapter for use w/ BC119N & BC160
BC167SD 53	220V Wall Charger
CP20	Cigarette Lighter Cable with DC-DC Converter
OPC656	BC121N DC Power Cable
Headset Adapter	
PA OPC499	Headset Adapter
Manuals	
98814945	Owner's Manual
97714915	Service Manual
94414904	Service Manual - CD
Programming	
CSA24	Programming Software - Dealer Use Only
OPC474	Cloning Cable - Transceiver to Transceiver
OPC478	Cloning Cable RC-232S Plug
OPC478UC	Cloning Cable USB 3.5mm Plug
Speaker Microphones	
HM173	Speaker Microphone ("L" connector)

IC-A110 - IC-A110B

Mobile or Base Avionics Transceiver

VERSIONS

A110 24	PC Programmable Version with 20 Ch
A110 24B	IC-A110 with power supply and cabinet for base station option
A110 25	Open VFO Version
A110 25B	IC-A110 with Radio with power supply and cabinet for base station option

IC-A110

IC-A110B Version

SPECS & FEATURES

Output Power:	9W Carrier, 36W P.E.P.
Channels:	20 (A110 04) or 760 (A110 05)
Display:	7 Character alphanumeric
Other Features:	Commercial air band transceiver Built-in-Side-Tone (w/ optional OPC-871 headset adapter & headset) Dual watch 5 Scan modes Adjustable display illumination 10W Audio to external speaker Mobile antenna not included MIL-STD 810 C, D and E

COMES WITH

Hand Mic (HM-161)
DC Power Cable (OPC-344)
Fuses
Mounting Bracket Kit
Hanger Mic Kit
Owners Manual

WARRANTY

2-Year

A110 Series

Configurations

Model	Descriptons
IC-A110 24	PC programmable version with 20 channels
IC-A110 24B	A110 with a power supply and cabinet for base station option
IC-A110 25	Open VFO version
IC-A110 25B	A110 with a power supply and cabinet for base station option

Accessories

Model	Accessories
Antenna	
B ANT	Base Station Antenna
K220A	Antenna - Magnetic Mount
K220C	Mobile Antenna w/Rooftop Hole Mount
Headset Adapter	
OPC871	Headset Adapter (Fits Most General Aviation Headsets)
External Speaker	
SP5	Remote Speaker - Mobile
SP10	Remote External Speaker
Manuals	
98813332	Owner's Manual
97713330	Service Manual
94413329	Service Manual - CD
Microphone	
SM25	Microphone - Desk
HM161	Hand Microphone
Power Supply	
ICT CS120-12AG/IC010	Power supply & cabinet for base station option
Programming	
OPC478	110V AC adapter for use w/ BC119N & BC160
OPC478UC	Cloning Cable USB 3.5mm Plug (OPC592 req'd)
OPC592	Cloning Cable Adapter
CSA110	Cloning Software (Requires OPC-478 and 592)

IC-A210

Avionics Panel Mount

VERSIONS

A210 21	Panel Mount Type Avionics Transceiver
A210 21M	Trunk Mount Avionics Transceiver
A210 21B	A200 base Station w/ PS80

SPECS & FEATURES

Output Power:	8W TX (carrier power)
Channels:	10 Memory & 200 Group Memory 10 GPS, 10 Weather, 10 Auto Stack
Other Features:	Plug & Play with SL-40/KY97/A200 Trays 12V/24V DC Power Source Auto Freq Updates with GPS Connection Large Bright OLED Display VOX Intercom Function

COMES WITH

A210M: A210 Vehicle Mount (MB-53)
Hand Mic (HM-176)
Speaker (SP-5)

A210B: A210
Power Supply (PS-80)
Hand Mic (HM-176)

WARRANTY

2-Year

A210 Series

Configurations

Model	Descriptons
IC-A210 21	Panel mount type aviation transceiver
IC-A210 21M	Trunk mount with MB-53
IC-A210 21B	A210 base station - w/PS-80

Accessories

Model	Accessories
Antennas	
B ANT	Base Station Antenna
K220A	Antenna - Magnetic Mount
K220C	Mobile Antenna w/Rooftop Hole Mount
Microphone	
HM176	Mircophone used with PS80 04 & MB53 02
Installation	
A200 Tray	Panel Installation Tray
MB53 02	Vehicle Mounting Kit (With HM176 & Harness)
MB113	SL-40 adapter
Power	
PS80 04	Base Station Power Supply w/HM176
Manuals	
98815316	Owner's Manual
97715315	Service Manual

IC-R6

Communications Receiver

VERSIONS

R6 16 Handheld Comm Receiver

R6 20* Handheld Comm Receiver
(Unblocked)

*Unblocked for sale to Federal Government, export, or authorized end users only

SPECS & FEATURES

Category:	Handheld Wideband Receiver
Frequency Range:	0.100MHz - 1309.995MHz**
Display Type:	LCD
Band Scope:	No
Receiver Type:	Triple conversion, superheterodyne
Dimensions:	2.3(w) x 3.4(h) x 1.1(d)
Modes:	AM, FM, WFM
Memory Channels:	1300 (50 scan edges & 200 auto memory write scan)
Auto Memory:	Yes
Alphanumeric Display:	6 Characters
PC Programming:	Optional with CS-R6 software
PC Controllable:	Yes
Attenuation:	Yes
Power Supply:	Ni-MH cells with AC adapter, BC-196SA/SD
Antenna Connector:	SMA

Other Features:
- Wideband coverage
- 100 Channels per second high speed scan
- 15 hours of continuous receive capability
- VSC (Voice Squelch Control)
- Optional drop in trickle charger
- 150mW audio output power
- Earphone cord antenna for AM Aviation and FM Broadcast
- Built-in audio low pass filter

**Blocked cellular frequency (824-849 & 869-894 MHz)

SIGNALING

CTCSS decode & tone scan

COMES WITH

Antenna (FA-S270C)
Battery (NI-MH cells)
Charger (BC-196SA)
Belt Clip
Hand Strap
Owners Manual

WARRANTY

1-Year

R6 Series

Configurations

Model	Description
R6 16	Handheld communications receiver
R6 20*	Handheld communications receiver - unblocked

**Unblocked for sale to Federal Government, export, or authorized end users only*

Accessories

Model	Description
Antennas	
AD-92SMA	Antenna connector adapter to BNC
FA-S270C	Antenna with SMA connector
Cables	
CP-18A	Cigarette lighter cable 12V
Carrying Cases	
LC-146A	Carrying case
Chargers	
BC-194	Charger stand for use with the BC-196S or CP-18A
BC-196SA	110V AC adapter
BC-196SD	220V AC adapter
Headphones	
HP-4	Headphones
Manuals	
98815531	Owners manual
97715530	Service manual
94415532	CD Service manual
Miscellaneous	
CT-17	CI-V level converter (remote control using PC)
Programming	
CS-R6	Cloning software
OPC-474	Cloning cable radio to radio
OPC-478	PC to radio programming cable with RS-232C
OPC-478UC	PC to radio programming cable, USB
Speakers	
SP-13	Earphone for handhelds
SP-27	Acoustic tube earphone w/clothing clip

IC-RX7

Handheld Wideband Receiver

VERSIONS

RX7 05	Handheld Comm Receiver
RX7 10*	Handheld Comm Receiver (Unblocked)

*Unblocked for sale to Federal Government, export, or authorized end users only

SPECS & FEATURES

Category:	Handheld Wideband Receiver
Frequency Range:	0.150MHz - 1300.000MHz**
Display Type:	Dot matrix LCD
Receiver Type:	Triple conversion, superheterodyne
Dimensions:	2 1/4(w) x 5 1/32(h) x 29/32(d), 7oz
Modes:	AM, FM, WFM
Memory Channels:	1825 (1600 reg., 25 scan edges, 200 auto memory write scan)
Auto Memory:	Yes
PC Programming:	Optional with CS-RX7 software
PC Controllable:	Yes
Attenuation:	Approximately 30dB
Power Supply:	BP-244 3.7V/1100mAh Li-ion battery
Antenna Connector:	SMA
Other Features:	Independent scan & search button 3-level memory management 4-way cursor buttons & 10 keypad IPX4 Splash resistant Tone control function & audio filter 8 hours of continuous receive capability Operating & charging from external power Built-in Ferrite Bar Antenna for AM Earphone cord antenna for FM broadcasts Weather alert (US version) Power save function

**Blocked cellular frequency (824-849 & 869-894 MHz)

SIGNALING

VSC
CTCSS
DTCS tone squelch

COMES WITH

Antenna (FA-S270C)
Battery (BP-244)
Charger (BC-149A)
Belt clip
Owners Manual

WARRANTY

1-Year

RX7 Series

Configurations

Model	Description
RX7 05	Handheld Communications Receiver - Blocked
RX7 10 *	Handheld Communications Receiver - Unblocked

**Unblocked for sale to Federal Government, export, or authorized end users only*

Accessories

Model	Description
Antennas	
FA-S270C	Antenna with SMA connector
AD-92SMA	Antenna connector adapter to BNC
Batteries	
BP-244	3.7V/1100mAh li-ion battery (same as supplied)
BP-262	AA (LR6) x 3 battery case
Cables	
CP-18A	Cigarette lighter cable 12V
Carrying Cases	
LC-170	Carrying case
Chargers	
BC-149A 02	Wall charger 110 VAC (same as supplied)
BC-149D 03	Wall charger 220 VAC
Headphones	
HP-4	Headphones
Manuals	
98815407	Owners manual
97715406	Service manual
94415408	CD Service manual
Miscellaneous	
CT-17	CI-V level converter (remote control using PC)
MB-112G	Belt clip (supplied)
Programming Software	
CS-RX7	Windows software
OPC-474	Cloning cable radio to radio
OPC-478	PC to radio programming cable with RS-232C
OPC-478UC	PC to radio programming cable, USB
Speakers	
SP-13	Earphone for handhelds

IC-R20

Dual Watch Handheld Receiver

VERSIONS

R20 06	Handheld Comm All Band Receiver
R20 11*	Handheld Comm All Band Receiver (Unblocked)

*Unblocked for sale to Federal Government, export, or authorized end users only

SPECS & FEATURES

Category:	Dual watch Receiver
Frequency Range:	0.150 - 1304.999MHz, 1305.000 - 3304.999MHz
Display Type:	LCD
Receiver Type:	Triple conversion, superheterodyne, plus down converter
Dimensions:	60(w) x 142(h) x 34.8(d), 11.3oz
Modes:	LSB*, USB*, CW*, AM, FM, WFM
Memory Channels:	1250 (1000 reg., 50 scan edges, 200 auto memory write scan)
Alphanumeric Display:	Yes
PC Programming:	Yes
PC Controllable:	Yes with CT17
Attenuation:	Yes
Power Supply:	1650 mAh Li-ion battery
Antenna Connector:	BNC

Other Features:
Dual watch receive
4-hour digital recorder
USB port
100 channels per second
Dynamic banks, capable of linking banks
VSC- opens squelch only when modulated signal detected

*Unblocked for sale to Federal Government, export, or authorized end users only

SIGNALING

VSC

COMES WITH

Antenna (FA-B04RE)
Battery (BP-206)
Charger (BP-149A)
Hand strap
Owners Manual

WARRANTY

1-Year

R20 Series

Configurations

Model	Description
R20 06	Blocked Communications All Band Receiver
R20 11*	Unblocked Communications All Band Receiver

**Unblocked for sale to Federal Government, export, or authorized end users only*

Accessories

Model	Description
Batteries	
BP-206	Li-ion battery cell assembly
Cables	
CP-18A	Cigarette lighter cable
Carrying Cases	
LC-158	Carrying case
Chargers	
BC-149A 02	Wall charger
BC-156 02	Desktop charger
Interfaces	
CT-17	CI-V Level Converter
Manuals	
98814851	Owners manual
97714840	Service manual
Mounting Brackets	
MB-86	Swivel belt clip
MB-98	Belt clip
Programming Software	
CS-R20	Cloning software (OPC-1392 USB cable included)
Speakers	
SP-13	Acoustic tube earphone w/clothing clip

IC-R75

Communications Receiver

VERSIONS

R75 22 Comm All Band Receiver

SPECS & FEATURES

Category:	All Mode Shortwave Receiver
Frequency Range:	0.03 - 60 MHz
Display Type:	LCD
Band Scope:	With RS-R75 Software
Receiver Type:	Triple conversion, super heterodyne
Dimensions:	9.5(w) x 3.69(h) x 9.03(d), 6lbs
Modes:	(S)AM, FM, SSB
Memory Channels:	101 (99 reg., 2 scan edges
Alphanumeric Display:	8 Characters
PC Programming:	With optional RS-R75 software
PC Controllable:	Yes with CI-V or RSR75
Attenuation:	Yes with CI-V or RSR75
Power Supply:	117, 220, 240V AC with AD-55/E
Antenna Connector:	SO-239
Other Features:	Twin passband tuning

COMES WITH

AC adapter (AD-55S)
DSP unit (UT-106)
Spare fuses
Owners Manual

WARRANTY

1-Year

R75

Configurations

Model	Description
R75 22	Communications All Band Receiver

Accessories

Model	Description
Chargers	
AD-55S 12	AC adapter 110 VAC-12VDC
AD-55S 13	AC adapter 220 VAC-12VDC
Interfaces	
CT-17	CI-V Level Converter
Filters	
CR-282	High stability crystal unit
FL-100	500 Hz/-6dB filter CW/RTTY nar. (9MHz IF)
FL-101	250 Hz/-6dB filter CW/RTTY nar. (9MHz IF)
FL-103	2.8 KHz/-6dB filter SSB Wide (9MHz IF)
FL-222	1.8 KHz/-6dB filter SSB nar. (455 KHz IF)
FL-223	1.9 KHz/-6dB filter SSB nar. (9MHz IF)
FL-232	350 Hz/-6dB filter CW/RTTY nar. (9MHz IF)
FL-257	3.3 KHz/-6dB filter SSB Wide (455 KHz IF)
FL-52A	500Hz 455KHz CW filter
FL-53A	250 Hz/-6dB filter CW/RTTY nar. (455 KHz IF)
Internal Moduals	
UT-102	Voice synthesizer
UT-106	DSP unit (supplied)
Manuals	
98812934	Owners manual
97712938	Service manual
94412913	CD Service manual
Mounting Brackets	
MB-5	Mobile mounting bracket
MB-23	Carrying handle
Programming	
RS-R75	Remote control software (Windows 95/98/XP)
OPC-478	PC to radio programming cable with RS-232C
OPC-478UC	PC to radio programming cable, USB
Speakers	
SP-23	External speaker

IC-R2500

Wide-band Communications Receiver

VERSIONS

R2500 05	Wideband Comm Receiver
R2500 10*	Wideband Comm Receiver (Unblocked)

*Unblocked for sale to Federal Government, export, or authorized end users only

SPECS & FEATURES

Category:	All Mode Mobile Receiver
Frequency Range:	.010 - 3299 MHz
Display Type:	LCD
Band Scope:	Real-time band scope function
Receiver Type:	Triple conversion, super heterodyne, Simultaneous dual receive
Dimensions:	5(w) x 1 5/8(h) x 8 1/8(d), 2lbs 10oz
Modes:	USB, LSB, CW, AM, FM, WFM, D-Star*, P25*
Memory Channels:	1000
Alphanumeric Display:	Yes
PC Programming:	Yes
PC Controllable:	Yes
Scan Edges:	100 Pairs
Attenuation:	Yes
Power Supply:	120V AC - (AD-113A)
Antenna Connector:	BNC
Options:	DSP with UT-106 DSP Unit DTMF with UT-108 DTMF Decoder Unit D-STAR with UT-118 D-STAR Digital Unit P25 with UT-122 P25 Digital Unit

*Unblocked for sale to Federal Government, export, or authorized end users only

SIGNALING

VSC
CTCSS Tone Squelch Decoder

COMES WITH

AC adapter (AD-113A)
Separation cable (OPC-1156)
USB cable
Telescoping antenna
Software
Spare fuses
Owner’s manual

WARRANTY

1-Year

R2500 Series

Configurations

Model	Description
R2500 05	Wideband Communications Receiver - Blocked
R2500 10*	Wideband Communications Receiver - Unblocked

**Unblocked for sale to Federal Government, export, or authorized end users only*

Accessories

Model	Description
Antennas	
3310001920	antenna (supplied with radio)
AH-8000	Super wideband discone antenna (100 - 3300MHz)
Cables	
CP-12L	Cigarette lighter cable
OPC-1156	3.5 m separation cable (supplied with radio)
OPC-254L	DC power cables
OPC-441	Speaker extension cable
Chargers	
AD-113A	AC adapter (110V)
AD-113E	AC adapter (220V)
Internal Moduals	
UT-106	DSP unit
UT-108	DTMF decoder unit
UT-118	D-STAR digital unit
UT-122	P-25 digital unit
Manuals	
98815179	Owners manual
97715145	Service manual
Programming Software	
BON CS4.5	Windows software
Speakers	
SP-10	Compact mobile speaker - 5 Watts, 4 Ohms

IC-R9500

Communications Receiver

VERSIONS

R9500 02	Professional Comm Receiver
R9500 06*	Professional Comm Receiver (Unblocked)

*Unblocked for sale to Federal Government, export, or authorized end users only

SPECS & FEATURES

Category:	Professional Comm Receiver
Frequency Range:	0.005 - 3335.000 MHz (cell bands blocked in US)
Display Type:	TFT LCD (800x480)
Band Scope:	Multi-function Spectrum scope
Dimensions:	424(w) x 149(h) x 340(d), 70lbs
Modes:	USB, LSB, CW, AM, FM, WFM, P25* (*optional UT-122 required)
Memory Channels:	1220 (1000 reg., 100 auto memory write channels, 100 memory scan skip, 20 scan edges
Alphanumeric Display:	Yes
PC Programming:	Yes
PC Controllable:	Yes
Scan Edges:	20
Attenuation:	3-levels (10dB, 20dB, 30dB)
Power Supply:	100V/120V/230V/240V AC
Antenna Connector:	4 (SO-239, RCA, 2 type-N)

SIGNALING

CTCSS Tone

COMES WITH

AC Power Cable
RCA plugs
Carrying Handles
DC Power Plug
Spare Fuses
ACC Plugs
Speaker Plugs
Owners Manual

WARRANTY

1-Year

R9500 Series

Configurations

Model	Description
R9500 02	Professional Communications Receiver (Blocked)
R9500 06*	Professional Communications Receiver (Unblocked)

**Unblocked for sale to Federal Government, export, or authorized end users only*

Accessories

Model	Description
Antennas	
AH-8000	Super wideband discone antenna (100 - 3300MHz)
Interfaces	
CT-17	CI-V level converter
Manuals	
98815256	Owners manual
97715255	Service manual
Miscellaneous	
UT-122	P25 Digital Unit
Speakers	
SP-20	Base station speaker

DISCONTINUED

F121 - F221 / F121S - F221S Series

Basic Mobiles

VERSIONS

VHF	F121 51	136-174 MHz
	F121 51B	136-174 MHz
UHF	F221 52	440-490 MHz
	F221 52B	440-490 MHz

VERSIONS

VHF	F121S 51	136-174 MHz
UHF	F221S 52	440-490 MHz

Configurations listed on adjoining pages

FEATURES

Output Power:	50W (VHF); 45W (UHF)
Channels:	8 w/ 2 banks (S-type)
Channel Spacing:	12.5 / 25kHz
PLL Chnl Spacing:	2.5 / 3.125 / 5 / 6.25kHz
Programmable Keys:	6, 4 (S-type)
Mil Spec:	810 C, D, E
Scan:	Normal & priority
PC Programmable:	With CSF100S/CSF100 software

Other Features:

- Front firing speaker
- Multiple 2-tones (10)
- Interactive LED Indicators (S-type)
- Name your bank, F121/F221
- More hook scan options
- Independent AF volume knob
- Backlit keys
- Fractional-N PLL provides faster lock up times
- Power ON password & stun functions
- Rugged construction, one piece, die-cast aluminum frame

SIGNALING

MDC1200 PTT ID & Emergency call
CTCSS Built-in
DTCS encode/decode
2/5 tone
DTMF encode
DTMF decode (UT-108)

ENCRYPTION (S-type)

Simple Inversion: UT-109 02 32 Codes
Rolling Code: UT-110 02 1020 Codes

COMES WITH (S-type)

Microphone (HM-152)
Mounting bracket
Power cable
Owners manual

WARRANTY (S-type)

2-Year

(S-type) Meets MIL-STD 810 MDC 1200 Compatible

F121/S - F221/S Series

The F121/S & F221/S mobiles are discontinued and no longer available from Icom. Icom does still sell the below accessories:

Accessories

Model	Description
Antennas	
ANTENNA 1	118-940MHz mountable unity antenna, field tunable, 1/4 WAVE, CHR,
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high
AVL/GPS Option	
UT-321	Simpletrack GPS card and antenna
IA10321A	Cloning adapter for UT-321 - use only with OPC-1122U
Cables	
OPC-617	Accessory Cable for external terminal connection
OPC-1132	3m DC power cable
External Speaker	
SP-5	Medium sized square external speaker
SP-10	Compact medium sized rectangular external speaker - 5W, 4 Ohm
SP-22	Small rectangular mobile external speaker - 5 Watt, 4 Ohm
SP-30	Large external speaker with loud audio
Internal Modules	
UT-108	DTMF Decoder unit
UT-109 02	Simple voice inversion scrambler with up to 32 codes
UT-110 02	Rolling code scrambler with up to 1020 (255 codes x 4 groups) availabl
Manuals	
98814731	F121S/F221S owners manua
98814699	F121/F221 owners manua
97714680	F121S service manua
97714679	F221S service manua
97714774	F121 service manua
97714775	F221 service manua
94414682	CD service manua
Microphones	
HM-152	Standard microphone
HM-152T	DTMF microphone
HM-148	Heavy duty microphone
HM-148G	Heavy duty self grounding microphone
HM-148T	Heavy duty DTMF microphone
SM-26	Desktop microphone equipped with a monitor switch
Mounting	
F121 MMB	Standard mounting bracket
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector
Power Supply	
SAM33171 F121	Power supply & cabinet
Programming	
CS-F100S	F121S/F221S Windows Programming Software
CS-F100	F121/F221 Windows Programming Software
OPC-1122	Programming Cloning Cable for PC to Radio with RC-232S connecto
OPC-1122U	Programming Cloning Cable for PC to Radio with USB connecto

F11/S - F21/S Series

The F11/S & F21/S portables are discontinued and no longer available from Icom. Icom does still sell the below accessories:

Accessories

Model	Description
Antennas	
AD-98FSC	Antenna adapter connector allows you to connect a BNC-type ant.
FA-SC25V	Flexible antenna for 136-155MHz VHF (Blue ring)
FA-SC55V	Flexible antenna for 146-174MHz VHF (Red ring)
FA-SC57U	Flexible antenna for 430-470MHz UHF (Red ring)
FA-SC56VS	Stubby antenna 150-160MHz (red ring)
FA-SC57VS	Stubby antenna 160-174MHz (green ring)
FA-SC73US	Stubby antenna 450-470MHz (red ring)
FA-SC61UC	380-512MHz cut antenna to frequency needed
FA-SC61VC	136-174MHz cut antenna to frequency needed
Batteries	
BP-208N	Alkaline battery case (holds 6 AA batteries)
BP-210N	1650 mAh Ni-MH 7.2V battery
Belt Clips	
MB-74N	Spring loaded alligator style belt clip
MB-86	Swivel belt clip for N series batteries
MB-87	Swivel belt clip that slides into battery lip
MB-103	Alligator belt clip for N series batteries
SPRING CLIP S	Short spring clip insert length 2.5"
SPRING CLIP L	Long spring clip insert length 3.5"
Cables	
CP-1	Cigarette lighter plug-in cord for BC119N & BC146
CP-17L	Cigarette lighter plug-in cord for BC119N (right angle)
OPC-656	DC power cable - for use with BC-121N (12-16V DC req.)
Cases	
LC-F21 CLIP	Leather case with a clip
NC-F21 LOOP	Nylon carrying Case with a loop
Chargers	
AD-99N	Combination spacer for BC-146/BC-144 and AD-94 11
AD-94 11	Adapter cup for NiCd/Ni-MH batteries for BC119N/BC-121N
AD-101	Adapter cup for Li-ion/NiCd/NiMH batteries for BC-119N/BC-121N
BC-119N 01	117V Rapid charger; charges NiCd/NiMH/Li-ion batteries; adapter cup required
BC-119N 02	220V Rapid charger; charges NiCd/NiMH/Li-ion batteries; adapter cup required
BC-121N	Multi-Unit (6) Charger (BC-124 & proper adapter cups req.)
BC-121NF11	BC121 + BC157 02 + (6) AD-94 11 Multi-Unit Charger Kit
BC-121NF11 220V	BC121 + BC157 04 + (6) AD-94 11 Multi-Unit Charger Kit
BC-157S 07	117V power supply for the BC-121 multi-unit charger
BC-157S 09	220V power supply for the BC-121 multi-unit charger
BC-144N 51	117V Rapid charger (includes BC-145A 11 AC adapter)
BC-144N 52	220V Rapid charger (includes BC-145E 12 AC adapter)
BC-145SA	117V AC adapter for BC-144/BC-119N (included with BC-144N 51/BC-119N 01)
BC-145SE	220V AC adapter for BC-144/BC-119N (included with BC-144N 52/BC-119N 02)
BC-146 01	Drop-in trickle charger (Requires BC-147 AC adapter)
BC-147SA 14	117V AC adapter for BC-146
BC-147SE 15	220V AC adapter for BC-146

F11/S - F21/S Series

Accessories

Model	Description
Headsets Cont.	
HS-94	Ear-piece type headset for VS-1L
HS-95	Behind-the-head headset with flexible boom microphone for VS-1L
HS-97	Throat microphone that fits around your neck for VS-1L
VS-1L	VOX/PTT unit (headset required)
Otto V4-10479	Lightweight single speaker headset w./in-line PTT
Otto V4-BA2CS1	Breeze behind-the-head headset, single speaker, left boom mic, std PTT
Otto V4-BA2CS5	Breeze behind-the-head headset, single speaker, left boom mic., mini PTT
Otto V4-EX2CS5	Explorer, lightweight, flexible earloop w/boom mic, quick disconnect
Manuals	
98813703	Owners manual (F11/21/S)
97713705	Service manual (F21/S)
97713930	Service manual (F11/S)
94414314	CD service manual (F11/S)
94413704	CD service manual (F21/S)
Programming	
CS-F11	Programming windows software
OPC-474	Cloning cable/radio to radio
OPC-478	Programming cloning cable for PC to radio with RC232S
OPC-478UC	Programming cloning cable for PC to radio with USB connector
Speaker Microphones	
SP-13	Earphone for handhelds, compatible w/HM46L, HM131L
HM-46L	Slim-line speaker microphone with earphone jack & a transmit indicator
HM-158L	Speaker microphone with compact & durable body. Equipped with an earphone jack and a revolving clip
HM-159L	Heavy duty speaker microphone with metal alligator clip and screw down L-shape connector
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug
Otto V1-10515	Barrel PTT to use with headsets with pigtails
Otto V1-EH22R131	D-hanger style piece to use with Otto speaker mics - right angle plug
Otto V2-10288	Evolution heavy duty speaker mic
Otto V2-C2CS11	Legacy speaker mic
Otto V2-L2CS11	Profile speaker mic
Wire Kits	
HM-128L	Lightweight earphone-mic. Compact microphone with PTT switch clips to your lapel
HM-153L	Heavy duty earphone-mic - two screw connector Compact microphone with PTT switch clips to your lapel
HM-166L	Earphone microphone - medium duty
Otto E1EB2CC131	1-wire earbud with in-line mic/PTT
Otto E1-EB2CS131	2-wire D-hanger with in-line mic/PTT
Otto V1-10756	2 wire Palm Mic Kit - 2.5/3.5mm right angle

F3/S - F4/S Series

The F3/S & F4/S portables are discontinued and no longer available from Icom. Icom does still sell the below accessories:

Accessories

Model	Description
Antennas	
FA-SC24V	Flexible antenna for 136-150MHz
FA-SC25U	Flexible antenna for 400-430MHz
FA-SC55V	Flexible antenna for 146-174 MHz
FA-SC57U	Flexible antenna for 440-470MHz
FA-SC56VS	Stubby antenna 150-160MHz (red ring)
FA-SC57VS	Stubby antenna 160-174MHz (green ring)
FA-SC73US	Stubby antenna 450-470MHz (red ring)
Belt Clips & Case	
MB-74N	Spring belt clip
MB-87	Swivel belt clip
SPRING CLIP S	Short spring clip insert length 2.5"
SPRING CLIP L	Long spring clip insert length 3.5"
Chargers	
AD-81	Adapter cup for BC-119N 01 & BC-121N multi-unit charger
BC-119N 01	117V/desktop rapid charger, adapter cup required
BC-119N 02	220V desktop rapid charger, adapter cup required
BC-122A	117V AC adapter for BC-133
BC-133	Drop-in trickle charger (requires a BC-122 adapter)
BC-145SA 31	117V AC adapter for BC-143/BC-119N (included w/BC-119N)
BC-145SE 32	220V AC adapter for BC-143/BC-119N (included w/BC-119N)
CP-17L	Cigarette lighter plug-in adapter for BC119N
Headsets	
HS-51	Headset w/Built-in PTT, VOX, T.O.T Operation
HS-94	Ear-piece type headset for VS-1
HS-95	Headset with boom mic for VS-1
HS-97	Earphone with throat mic for VS-1
VS-1	VOX/PTT unit
Internal Modules	
UT-109 01	Simple voice inversion scrambler with up to 32 codes
UT-110 01	Rolling code scrambler with up to 1020 (255 codes x 4 groups) available
Manuals	
99900001	Front panel programming manual for F3/F4
98812456	Owners manual
97712311	Service manual
94412917	CD Service manual
Programming	
CS-F3	F3/S/F4/S PC programming software
OPC-474	Cloning cable/radio to radio
OPC-478	Programming cloning cable for PC to radio with RC232S
OPC-478UC	Programming cloning cable for PC to radio with USB connector
Speaker Microphones	
HM-128	Earphone and microphone
HM-131	Speaker microphone with earphone jack and revolving clip
HM-46	Slim-line Speaker microphone w/earphone jack & transmit indicator
HM-54	Commercial grade speaker microphone
HM-75A	Speaker microphone with remote control
SP-13	Earphone for handhelds
Wire Wits	
Otto V1-10252	Receive only wire kit with 3.5mm straight plug
Otto V1-10282	Speaker Mic Earphone kit with coil cord & 2.5mm straight plug
Otto V1-10396	3-Wire Mini Lapel Mic Kit

F30G - F40G Series

The F30G & F40G portables are discontinued and no longer available from Icom. Icom does still sell the below accessories:

Accessories

Model	Description
Antennas	
FA-SC25U	Flexible antenna for 400-430MHz UHF (Green tip)
FA-SC25V	Flexible antenna for 136-155MHz VHF (Blue tip)
FA-SC55V	Flexible antenna for 146-174MHz VHF (Red tip)
FA-SC57U	Flexible antenna for 430-470MHz UHF (Red tip)
FA-SC72U	Flexible antenna for 470-520MHz UHF (Blue tip)
FA-SC56VS	Stubby antenna 150-160MHz (red ring)
FA-SC57VS	Stubby antenna 160-174MHz (green ring)
FA-SC73US	Stubby antenna 450-470MHz (red ring)
FA-SC61UC	380-512MHz cut antenna to frequency needed
FA-SC61VC	136-174MHz cut antenna to frequency needed
Batteries	
BP-210N	1650 mAh Ni-MH 7.2V battery
BP-210N FM	IS battery for IS F30G radios
Belt Clips & Cases	
MB-74N	Spring loaded alligator style belt clip
MB-86	Swivel belt clip for N series batteries
MB-87	Swivel belt clip
MB-103	Alligator belt clip for N series batteries
SPRING CLIP S	Short spring clip insert Length 2.5"
SPRING CLIP L	Long spring clip insert Length 3.5"
Cables	
CP-1	Cigarette lighter plug-in cord for BC119N & BC146
CP-17L	Cigarette lighter plug-in cord for BC119N
Cases	
LC-F30G CLIP	Leather case for the F30G/F40G with a clip
NC-F30G CLIP	Nylon carrying case for the F30G/F40G with a clip
NC-F30G LOOP	Nylon carrying case for the F30G/F40G with a loop
Chargers	
AD-94 11	Adapter cup for NiCd/Ni-MH batteries for BC119N/BC-121N
AD-99N	Combination spacer for BC-146/BC-144 and AD-94 11
AD-101	Adapter cup for Li-ion/NiCd/NiMH batteries for BC-119N/BC-121N
BC-121N	Multi-Unit (6) Charger (BC-124 & proper adapter cups req.)
BC-157S 07	117V power supply for the BC-121 multi-unit charger
BC-157S 09	220V power supply for the BC-121 multi-unit charger
BC-144N 51	117V Rapid charger (includes BC-145A 11 AC adapter)
BC-144N 52	220V Rapid charger (includes BC-145A 11 AC adapter)
BC-145SA	117V AC adapter for BC-144/BC-119N (included with BC-144N 51/BC-119N 01)
BC-145SE	220V AC adapter for BC-144/BC-119N (included with BC-144N 52/BC-119N 02)
BC-146 01	Drop-in trickle charger (Requires BC-147 AC adapter)
BC-147A 11	117V AC Adapter for BC-146
BC-147SE 15	220V AC Adapter for BC-146
Headsets	
HS-94	Ear-piece type headset for VS-1SC
HS-95	Headset with boom mic for VS-1SC

F30G - F40G Series

Accessories Continued

Model	Description
Headsets Continued	
HS-97	Earphone with throat mic for VS-1SC
VS-1SC	PTT unit, no VOX circuit inside
Otto V4-BA2CM1	Breeze behind-the-head headset, single speaker, w/left boom
Otto V4-HC2CD1	Hurricane, lightweight, dual ear, behind-the-head headset
Otto V4-NR2CD1	Ranger, single ear, behind the head rugged headset
Otto V4-10515	Over-the-head, noise attenuating headsets
Otto V4-10399	Skull Mic System
Internal Modules	
UT-109 02	Simple voice inversion scrambler with up to 32 codes
UT-110 02	Rolling code scrambler with up to 1020 (255 codes x 4 groups) available
UT-124	Man Down Unit
Manuals	
94414803	CD Service manual for F30GS/GT
94413511	CD Service manual for F40GS/GT
97713510	Service manual for F30GS/GT
97713513	Service manual for F40GS/GT
98813509	Owners manual for F30GS/GT series
Miscellaneous	
AD-98FSC	BNC antenna conversion connector
Programming	
CS-F30G	Programming Software for F30G/F40G
OPC-966	Programming cloning cable with RC-232S connector
OPC-966U	Programming cloning cable with USB connector
Mics, Speaker Mics & PTTs	
AD-52	Earphone adapter to use with SP-13
EM-80	Speaker mic- durable, full-sized microphone
EM-89	Speaker mic- slim mic w/earphone jack
HM-131SC	Speaker microphone with earphone jack and revolving clip
SP-13	Earphone for handhelds req. AD-52 to use w/F30G radios
Otto V1-10282	Earpiece to use with Otto speaker mics - straight plug
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug
Otto V1-EH22R131	D-hanger piece to use with Otto spkr mics - right angle plug
Otto V1-10602	3-wire mini lapel mic kit (black
Otto V1-T12CD137	Thoat mic system
Otto V2-10314	Evolution heavy duty speaker mic
Otto V2-L2CM11	Profile speaker mic

The F30G Series I.S. version radios used with the following options meet FM approval:

- BP-210NFM – Ni-MH battery pack
- EM-80 – Speaker mic

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Landmobile	37.25% from published retail
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Receivers	21.25% from published retail
Accessories	37.25% from published retail
Retail Prices	The retail prices offered herein are from February 2013.
Shipping Terms	FOB Destination. Icom America offers free surface freight on all orders for the State (CONUS).

Model	Description	Retail	State Price
LANDMOBILE PRODUCT GROUP- Discount Rate is 37.25% from Published Retail.			
4088A 15	4088A 15 Low Power FM Handheld Short Antenna	$ 165.00	$ 103.54
CY CROSSBAND CONTROLLER	CY CROSSBAND CONTROLLER Cross Banding Controller	$ 369.00	$ 231.55
CY5000 41	CY5000 41 136-174 VHF NXDN Repeater with PS	$ 2,230.00	$ 1,399.33
CY5000 41 D 140-145	136-174 MHz IDAS digital and analog repeater with duplexer (140-145 split)	$ 2,835.00	$ 1,778.96
CY5000 41 D 150-153	136-174 MHz IDAS digital and analog repeater with duplexer (150-153 split)	$ 2,835.00	$ 1,778.96
CY5000 41 D 150-155	CY5000 41 D 150-155 VHF NXDN Repeater with PS and Dup	$ 2,835.00	$ 1,778.96
CY5000 41 D 150-159	136-174 MHz IDAS digital and analog repeater with duplexer (150-159 split)	$ 2,835.00	$ 1,778.96
CY5000 41 D 152-155	CY5000 41 D 152-155 VHF NXDN Repeater with PS and Dup	$ 2,835.00	$ 1,778.96
CY5000 41 D 160-165	136-174 MHz IDAS digital and analog repeater with duplexer (160-165 split)	$ 2,835.00	$ 1,778.96
CY5000 41 D 165-168	136-174 MHz IDAS digital and analog repeater with duplexer (165-168 split)	$ 2,835.00	$ 1,778.96
CY5000 41 D PRE 140-145	136-174 MHz IDAS digital and analog repeater with duplexer (140-145 split) and pre-selector	$ 3,300.00	$ 2,070.75
CY5000 41 D PRE 150-153	136-174 MHz IDAS digital and analog repeater with duplexer (150-153 split) and pre-selector	$ 3,300.00	$ 2,070.75
CY5000 41 D PRE 150-155	CY5000 41 D PRE 150-155 VHF NXDN Rptr with PS/Dup/Pre Sel	$ 3,300.00	$ 2,070.75
CY5000 41 D PRE 150-159	136-174 MHz IDAS digital and analog repeater with duplexer (150-159 split) and pre-selector	$ 3,300.00	$ 2,070.75
CY5000 41 D PRE 152-155	136-174 MHz IDAS digital and analog repeater with duplexer (152-155 split) and pre-selector	$ 3,300.00	$ 2,070.75
CY5000 41 D PRE 160-165	136-174 MHz IDAS digital and analog repeater with duplexer (160-165 split) and pre-selector	$ 3,300.00	$ 2,070.75
CY5000 41 PRE	CY5000 41 PRE	$ 2,855.00	$ 1,791.51
CY5000 41 PRE 165-168	136-174 MHz IDAS digital and analog repeater with duplexer (165-168 split) and pre-selector	$ 3,300.00	$ 2,070.75
CY5000 DUP KIT 150-159	CY5000 DUP KIT 150-159 Duplexor Installation Kit CY50	$ 608.33	$ 381.73
CY6000 41	CY6000 41 400-470 UHF NXDN Repeater with PS	$ 2,230.00	$ 1,399.33
CY6000 41 D 400-405	400-470 MHz IDAS digital and analog repeater with duplexer (400-405 split)	$ 2,835.00	$ 1,778.96
CY6000 41 D 415-420	400-470 MHz IDAS digital and analog repeater with duplexer (415-420 split)	$ 2,835.00	$ 1,778.96
CY6000 41 D 440-445	400-470 MHz IDAS digital and analog repeater with duplexer (440-445 split)	$ 2,835.00	$ 1,778.96
CY6000 41 D 450-455	400-470 MHz IDAS digital and analog repeater with duplexer (450-455 split)	$ 2,835.00	$ 1,778.96
CY6000 41 D 457-462	CY6000 41 D 457-462 UHF NXDN Repeater with PS and Dup	$ 2,835.00	$ 1,778.96
CY6000 41 D 460-465	400-470 MHz IDAS digital and analog repeater with duplexer (460-465 split)	$ 2,835.00	$ 1,778.96
CY6000 41 D PRE 400-405	400-470 MHz IDAS digital and analog repeater with duplexer (400-405 split) and pre-selector	$ 3,300.00	$ 2,070.75
CY6000 41 D PRE 415-420	400-470 MHz IDAS digital and analog repeater with duplexer (415-420 split) and pre-selector	$ 3,300.00	$ 2,070.75
CY6000 41 D PRE 440-445	400-470 MHz IDAS digital and analog repeater with duplexer (440-445 split) and pre-selector	$ 3,300.00	$ 2,070.75
CY6000 41 D PRE 450-455	400-470 MHz IDAS digital and analog repeater with duplexer (450-455 split) and pre-selector	$ 3,300.00	$ 2,070.75
CY6000 41 D PRE 457-462	CY6000 41 D PRE 457-462 UHF NXDN Rptr with PS/Dup/Pre Sel	$ 3,300.00	$ 2,070.75
CY6000 41 D PRE 460-465	400-470 MHz IDAS digital and analog repeater with duplexer (460-465 split) and pre-selector	$ 3,300.00	$ 2,070.75
CY6000 41-PRE	400-470 MHz IDAS digital and analog repeater with pre-selector	$ 2,855.00	$ 1,791.51
CY6000 51	CY6000 51 450-512 UHF NXDN Repeater with PS	$ 2,230.00	$ 1,399.33
CY6000 51 D 450-455	450-512 MHz IDAS digital and analog repeater with duplexer (450-455 split)	$ 2,835.00	$ 1,778.96
CY6000 51 D 457-462	CY6000 51 D 457-462 UHF NXDN Repeater with PS and Dup	$ 2,835.00	$ 1,778.96
CY6000 51 D 460-465	450-512 MHz IDAS digital and analog repeater with duplexer (460-465 split)	$ 2,835.00	$ 1,778.96
CY6000 51 D PRE 450-455	450-512 MHz IDAS digital and analog repeater with duplexer (450-455 split) and pre-selector	$ 3,300.00	$ 2,070.75
CY6000 51 D PRE 457-462	CY6000 51 D PRE 457-462 UHF NXDN Rptr with PS/Dup/Pre Sel	$ 3,300.00	$ 2,070.75
CY6000 51 D PRE 460-465	450-512 MHz IDAS digital and analog repeater with duplexer (460-465 split) and pre-selector	$ 3,300.00	$ 2,070.75
CY6000 51-PRE	450-512 MHz IDAS digital and analog repeater with pre-selector	$ 2,855.00	$ 1,791.51
CY6000 DUP KIT 457-462	CY6000 DUP KIT 457-462 Duplexor Installation Kit CY60	$ 608.33	$ 381.73
DANIELS Z36902	DANIELS Z36902 VHF P25/Analog Base/Repeaters	$ 19,634.00	$ 12,320.34
F1721 43	F1721 43 136-174MHz 50W P25 upgradeable mobile	$ 870.00	$ 545.93
F1721 43B	F1721 43B 136-174MHz 50W + ICT P25 upgradeable / Power Supply	$ 1,070.00	$ 671.43
F1721D 41	F1721D 41 APC025 VHF Digital Transceiver 15/30kHz, 50W	$ 1,391.00	$ 872.85
F1721D 41	F1721D 41 APC025 VHF Digital Transceiver 15/30kHz, 50W	$ 1,391.00	$ 872.85
F1721D 41B	F1721D 41B APC025 Base Station F1721D 41 + ICT	$ 1,591.00	$ 998.35
F1821D 11	F1821D 11 APC025 VHF Digital Transceiver 15/30kHz, 50W	$ 1,490.00	$ 934.98
F1821D 11B	F1821D 11B APC025 Base Station F1821D 11 + ICT CS120-20A/IC06	$ 1,690.00	$ 1,060.48
F2721D 01	F2721D 01 400-470MHz Digital Transceiver 12.5/25kHz, 45W	$ 1,520.00	$ 953.80
F2721D 01B	F2721D 01B APC025 Base Station F2721D 01 + ASTSS18F1721	$ 1,720.00	$ 1,079.30
F2721D 02	F2721D 02 450-512MHz Digital Transceiver 12.5/25kHz, 45W	$ 1,520.00	$ 953.80
F2721D 02B	F2721D 02B APC025 Base Station F2721D 02 + ASTSS18F1721	$ 1,720.00	$ 1,079.30
F2721D 03	F2721D 03 400-470MHz Analog Upgradeable 12.5/25kHz, 45W	$ 810.00	$ 508.28
F2721D 03B	F2721D 03B APC025 Base Station F2721D 03 + ICT CS120-20A/IC06	$ 1,010.00	$ 633.78
F2721D 04	F2721D 04 450-512MHz Analog Upgradeable 12.5/25kHz, 45W	$ 810.00	$ 508.28
F2721D 04B	F2721D 04B APC025 Base Station F2721D 04 + ICT CS120-20A/IC06	$ 1,010.00	$ 633.78
F2821D 21	F2821D 21 400-470MHz Digital Transceiver 12.5/25kHz, 45W	$ 820.00	$ 514.55
F2821D 21B	F2821D 21B APC025 Base Station F2821D 21 + ICT CS120-20A/IC06	$ 1,020.00	$ 640.05
F2821D 22	F2821D 22 450-512MHz Digital Transceiver 12.5/25kHz, 45W	$ 799.00	$ 501.37
F2821D 22B	F2821D 22B APC025 Base Station F2821D 22 + ICT CS120-20A/IC06	$ 999.00	$ 626.87
F2821D 23	F2821D 23 400-470MHz Digital Transceiver 12.5/25kHz, 45W	$ 650.00	$ 407.88
F2821D 23B	F2821D 23B APC025 Base Station F2821D 23 + ICT CS120-20A/IC06	$ 880.00	$ 552.20
F3001 02 DTC	F3001 02 DTC 136-174 NIMH 110V NIMH Regular Charger 110V	$ 199.00	$ 124.87
F3001 03 RC	F3001 03 RC 136-174 LiIon 110V LI-ION Rapid Charger 110V	$ 240.00	$ 150.60

Model	Description	Retail	State Price
F3011 41 RC	F3011 41 RC 136-174MHz 16 Ch Rapid Charger in the Box	$ 240.00	$ 150.60
F3021S 41	F3021S 41 136-174MHz 4-Key	$ 350.00	$ 219.63
F3021S 41 DTC	F3021S 41 DTC Drop-In Trickle Charger Package BC171 01	$ 395.00	$ 247.86
F3021S 41 RC	F3021S 41 RC Drop-In Rapid Charger Package BC160 01	$ 415.00	$ 260.41
F3021T 01	F3021T 01 136-174MHz 10-Key	$ 375.00	$ 235.31
F3021T 01 DTC	F3021T 01 DTC Drop-In Trickle Charger Package BC171 01	$ 420.00	$ 263.55
F3021T 01 RC	F3021T 01 RC Drop-In Rapid Charger Package BC160 01	$ 440.00	$ 276.10
F3031S 81	F3031S 81 136-174MHz WP HH BP232WP 128Ch Display	$ 435.00	$ 272.96
F3031S 81 DTC	F3031S 81 DTC 136-174 WP HH BP232WP 128Ch Display BC171	$ 480.00	$ 301.20
F3031S 81 RC	F3031S 81 RC 136-174 WP HH BP232WP 128Ch Display BC160	$ 500.00	$ 313.75
F3101D 01 RC	F3101D 01 RC Low End IDAS No Display 136-174MHz	$ 595.00	$ 373.36
F3161DS 71	F3161DS 71 136-174 4-Key UT126	$ 810.00	$ 508.28
F3161DS 71 DTC	F3161DS 71 DTC 136-174 UT126 4-Key with BC171 01	$ 855.00	$ 536.51
F3161DS 71 RC	F3161DS 71 RC 136-174MHz UT126 4-Key with BC160 01	$ 875.00	$ 549.06
F3161DS 75	F3161DS 75 IS 136-174MHz IDAS Portable w/o Keypad	$ 875.00	$ 549.06
F3161DS 75 DTC	F3161DS 75 DTC IS 136-174 IDAS Portable w/o Keypad - BC171 01	$ 920.00	$ 577.30
F3161DS 75 RC	F3161DS 75 RC IS 136-174 IDAS Portable w/o Keypad - BC160 01	$ 940.00	$ 589.85
F3161DT 61	F3161DT 61 136-174 10Key UT126	$ 860.00	$ 539.65
F3161DT 61 DTC	F3161DT 61 DTC 136-174 UT126 10-Key with BC171 01	$ 905.00	$ 567.89
F3161DT 61 RC	F3161DT 61 RC 136-174MHz UT126 10-Key with BC160 01	$ 925.00	$ 580.44
F3161DT 65	F3161DT 65 IS 136-174 10Key	$ 895.00	$ 561.61
F3161DT 65 DTC	F3161DT 65 DTC IS 136-174MHz UT126 10-Key with BC171 01	$ 940.00	$ 589.85
F3161DT 65 RC	F3161DT 65 RC IS 136-174 UT126 10-Key with BC160 01	$ 960.00	$ 602.40
F3161DT 66 RC RR	F3161DT 66 RC RR Portable with MB94R, Larsen Ant and BC160	$ 949.50	$ 595.81
F3161DT 66 RR	F3161DT 66 RR Portable with MB94R and Larsen Antenna	$ 880.50	$ 552.51
F3161S 51	F3161S 51 136-174MHz 4-Key	$ 585.00	$ 367.09
F3161S 51 DTC	F3161S 51 DTC 136-174MHz WITH BC171 01	$ 630.00	$ 395.33
F3161S 51 RC	F3161S 51 RC 136-174MHz 4-Key PACKAGE WITH BC160 01	$ 650.00	$ 407.88
F3161S 55	F3161S 55 IS 136-174MHz 4-Key Portable w/o Keypad	$ 640.00	$ 401.60
F3161S 55 DTC	F3161S 55 DTC IS 136-174MHz WITH BC171 01	$ 685.00	$ 429.84
F3161S 55 RC	F3161S 55 RC IS 136-174 4-Key PACKAGE WITH BC160 01	$ 705.00	$ 442.39
F3161T 41	F3161T 41 136-174MHz 10-Key	$ 610.00	$ 382.78
F3161T 41 DTC	F3161T 41 DTC 136-174MHz 10Key PACKAGE WITH BC171 01	$ 655.00	$ 411.01
F3161T 41 RC	F3161T 41 RC 136-174MHz 10-Key PACKAGE WITH BC160 01	$ 675.00	$ 423.56
F3161T 45	F3161T 45 IS 136-174MHz 10-Key	$ 665.00	$ 417.29
F3161T 45 DTC	F3161T 45 DTC IS 136-174 10Key PACKAGE WITH BC171 01	$ 710.00	$ 445.53
F3161T 45 RC	F3161T 45 RC IS 136-174 10-Key PACKAGE WITH BC160 01	$ 730.00	$ 458.08
F3261DS 11	F3261DS 11 136-174 IDAS Water proof BTL	$ 885.00	$ 555.34
F3261DS 11 RC	F3261DS 11 RC 136-174 IDAS Waterproof BTL w/ BC160 01	$ 950.00	$ 596.13
F3261DS 15	F3261DS 15 136-174 IDAS Water proof BTL GPS	$ 950.00	$ 596.13
F3261DS 15 RC	F3261DS 15 RC 136-174 IDAS Waterproof BTL GPS w/ BC160 01	$ 1,015.00	$ 636.91
F3261DT 01	F3261DT 01 136-174 IDAS Water proof BTL	$ 905.00	$ 567.89
F3261DT 01 RC	F3261DT 01 RC 136-174 IDAS Waterproof BTL w/ BC160 01	$ 970.00	$ 608.68
F3261DT 05	F3261DT 05 136-174 IDAS Water proof BTL GPS	$ 970.00	$ 608.68
F3261DT 05 RC	F3261DT 05 RC 136-174 IDAS Waterproof BTL GPS w/ BC160 01	$ 1,035.00	$ 649.46
F4001 02 DTC	F4001 02 DTC 400-470 NIMH 110V NIMH Regular Charger 110V	$ 199.00	$ 124.87
F4001 03 RC	F4001 03 RC 400-470 LI-ION 110 LI-ION Rapid Charger 110V	$ 240.00	$ 150.60
F4001 42 DTC	F4001 42 DTC 450-512 NIMH 110V NIMH Regular Charger 110V	$ 199.00	$ 124.87
F4001 43 RC	F4001 43 RC 450-512 LI-ION 110 LI-ION Rapid Charger 110V	$ 240.00	$ 150.60
F4011 41 RC	F4011 41 RC 400-470MHz 16 Ch Rapid Charger in the Box	$ 240.00	$ 150.60
F4011 42 RC	F4011 42 RC 450-512MHz 16 Ch Rapid Charger in the Box	$ 240.00	$ 150.60
F4021S 41	F4021S 41 400-470MHz 4-Key	$ 350.00	$ 219.63
F4021S 41 DTC	F4021S 41 DTC Drop-In Trickle Charger Package BC171 01	$ 395.00	$ 247.86
F4021S 41 RC	F4021S 41 RC Drop-In Rapid Charger Package BC160 01	$ 415.00	$ 260.41
F4021S 42	F4021S 42 450-512MHz 4-Key	$ 350.00	$ 219.63
F4021S 42 DTC	F4021S 42 DTC Drop-In Trickle Charger Package BC171 01	$ 395.00	$ 247.86
F4021S 42 RC	F4021S 42 RC Drop-In Rapid Charger Package BC160 01	$ 415.00	$ 260.41
F4021T 01	F4021T 01 400-470MHz 10-Key	$ 375.00	$ 235.31
F4021T 01 DTC	F4021T 01 DTC Drop-In Trickle Charger Package BC171 01	$ 420.00	$ 263.55
F4021T 01 RC	F4021T 01 RC Drop-In Rapid Charger Package BC160 01	$ 440.00	$ 276.10
F4021T 02	F4021T 02 450-512MHz 10-Key	$ 375.00	$ 235.31
F4021T 02 DTC	F4021T 02 DTC Drop-In Trickle Charger Package BC171 01	$ 420.00	$ 263.55
F4021T 02 RC	F4021T 02 RC Drop-In Rapid Charger Package BC160 01	$ 440.00	$ 276.10
F4031S 72	F4031S 72 400-470MHz WP HH BP232WP 128Ch Display	$ 435.00	$ 272.96
F4031S 72 DTC	F4031S 72 DTC 400-470 WP HH BP232WP 128Ch Display BC171	$ 480.00	$ 301.20
F4031S 72 RC	F4031S 72 RC 400-470 WP HH BP232WP 128Ch Display BC160	$ 500.00	$ 313.75
F4031S 73	F4031S 73 450-512MHz WP HH BP232WP 128Ch Display	$ 435.00	$ 272.96
F4031S 73 DTC	F4031S 73 DTC 450-512 WP HH BP232WP 128Ch Display BC171	$ 480.00	$ 301.20
F4031S 73 RC	F4031S 73 RC 450-512 WP HH BP232WP 128Ch Display BC160	$ 500.00	$ 313.75
F4101D 01 RC	F4101D 01 RC Low End IDAS No Display 400-470MHz	$ 595.00	$ 373.36
F4101D 21 RC	F4101D 21 RC Low End IDAS No Display 450-512MHz	$ 595.00	$ 373.36
F4161DS 71	F4161DS 71 400-470MHz 4-Key	$ 810.00	$ 508.28
F4161DS 71 DTC	F4161DS 71 DTC 400-470 UT126 4-Key, package with BC171 01	$ 855.00	$ 536.51
F4161DS 71 RC	F4161DS 71 RC 400-470MHz UT126 4-Key, package with BC160 01	$ 875.00	$ 549.06
F4161DS 75	F4161DS 75 IS 400-470MHz IDAS Portable w/o Keypad	$ 875.00	$ 549.06
F4161DS 75 DTC	F4161DS 75 DTC IS 400-470 IDAS Portable w/o Keypad - BC171 01	$ 920.00	$ 577.30
F4161DS 75 RC	F4161DS 75 RC IS 400-470 IDAS Portable w/o Keypad - BC160 01	$ 940.00	$ 589.85
F4161DS 76	F4161DS 76 450-512MHz 4-Key	$ 810.00	$ 508.28

Model	Description	Retail	State Price
F4161DS 76 DTC	F4161DS 76 DTC 450-512 UT126 4-Key, package with BC171 01	$ 855.00	$ 536.51
F4161DS 76 RC	F4161DS 76 RC 450-512MHz UT126 4-Key, package with BC160 01	$ 875.00	$ 549.06
F4161DS 80	F4161DS 80 IS 450-512MHz IDAS Portable w/o Keypad	$ 875.00	$ 549.06
F4161DS 80 DTC	F4161DS 80 DTC IS 450-512 IDAS Portable w/o Keypad - BC171 01	$ 920.00	$ 577.30
F4161DS 80 RC	F4161DS 80 RC IS 450-512 IDAS Portable w/o Keypad - BC160 01	$ 940.00	$ 589.85
F4161DT 61	F4161DT 61 400-470MHz 10-Key	$ 860.00	$ 539.65
F4161DT 61 DTC	F4161DT 61 DTC 400-470 UT126 10-Key, package with BC171 01	$ 905.00	$ 567.89
F4161DT 61 RC	F4161DT 61 RC 400-470MHz UT126 10-Key, package with BC160 01	$ 925.00	$ 580.44
F4161DT 65	F4161DT 65 IS 400-470MHz 10Key	$ 895.00	$ 561.61
F4161DT 65 DTC	F4161DT 65 DTC IS 400-470MHz UT126 10Key package BC171 01	$ 940.00	$ 589.85
F4161DT 65 RC	F4161DT 65 RC IS 400-470 UT126 10-Key, package with BC160 01	$ 960.00	$ 602.40
F4161DT 66	F4161DT 66 450-512MHz 10-Key	$ 860.00	$ 539.65
F4161DT 66 DTC	F4161DT 66 DTC 450-512 UT126 10-Key, package with BC171 01	$ 905.00	$ 567.89
F4161DT 66 RC	F4161DT 66 RC 450-512MHz UT126 10-Key, package with BC160 01	$ 925.00	$ 580.44
F4161DT 70	F4161DT 70 IS 450-512MHz 10Key	$ 895.00	$ 561.61
F4161DT 70 DTC	F4161DT 70 DTC IS 450-512MHz UT126 10Key package BC171 01	$ 940.00	$ 589.85
F4161DT 70 RC	F4161DT 70 RC IS 450-512 UT126 10-Key, package with BC160 01	$ 960.00	$ 602.40
F4161S 51	F4161S 51 400-470MHz 4-Key	$ 585.00	$ 367.09
F4161S 51 DTC	F4161S 51 DTC 400-470MHz 4-Key PACKAGE WITH BC171 01	$ 630.00	$ 395.33
F4161S 51 RC	F4161S 51 RC 400-470MHz 4-Key PACKAGE WITH BC160 01	$ 650.00	$ 407.88
F4161S 55	F4161S 55 IS 400-470MHz 4-Key Portable w/o Keypad	$ 640.00	$ 401.60
F4161S 55 DTC	F4161S 55 DTC IS 400-470 4-Key PACKAGE WITH BC171 01	$ 685.00	$ 429.84
F4161S 55 RC	F4161S 55 RC IS 400-470 4-Key PACKAGE WITH BC160 01	$ 705.00	$ 442.39
F4161S 56	F4161S 56 450-512MHz 4-Key	$ 585.00	$ 367.09
F4161S 56 DTC	F4161S 56 DTC 450-512MHz 4-Key PACKAGE WITH BC171 01	$ 630.00	$ 395.33
F4161S 56 RC	F4161S 56 RC 450-512MHz 4-Key PACKAGE WITH BC160 01	$ 650.00	$ 407.88
F4161S 60	F4161S 60 IS 450-512MHz 4-Key Portable w/o Keypad	$ 640.00	$ 401.60
F4161S 60 DTC	F4161S 60 DTC IS 450-512 4-Key PACKAGE WITH BC171 01	$ 685.00	$ 429.84
F4161S 60 RC	F4161S 60 RC IS 450-512 4-Key PACKAGE WITH BC160 01	$ 705.00	$ 442.39
F4161T 41	F4161T 41 400-470MHz 10-Key	$ 610.00	$ 382.78
F4161T 41 DTC	F4161T 41 DTC 400-470MHz 10Key PACKAGE WITH BC171 01	$ 655.00	$ 411.01
F4161T 41 RC	F4161T 41 RC 400-470MHz 10-Key PACKAGE WITH BC160 01	$ 675.00	$ 423.56
F4161T 45	F4161T 45 IS 400-470MHz 10-Key	$ 665.00	$ 417.29
F4161T 45 DTC	F4161T 45 DTC IS 400-470 10Key PACKAGE WITH BC171 01	$ 710.00	$ 445.53
F4161T 45 RC	F4161T 45 RC IS 400-470 10-Key PACKAGE WITH BC160 01	$ 730.00	$ 458.08
F4161T 46	F4161T 46 450-512MHz 10-Key	$ 610.00	$ 382.78
F4161T 46 DTC	F4161T 46 DTC 450-512MHz 10Key PACKAGE WITH BC171 01	$ 655.00	$ 411.01
F4161T 46 RC	F4161T 46 RC 450-512MHz 10-Key PACKAGE WITH BC160 01	$ 675.00	$ 423.56
F4161T 50	F4161T 50 IS 450-512MHz 10-Key	$ 665.00	$ 417.29
F4161T 50 DTC	F4161T 50 DTC IS 450-512 10Key PACKAGE WITH BC171 01	$ 710.00	$ 445.53
F4161T 50 RC	F4161T 50 RC IS 450-512 10-Key PACKAGE WITH BC160 01	$ 730.00	$ 458.08
F4261DS 11	F4261DS 11 400-470 IDAS Water proof BTL	$ 885.00	$ 555.34
F4261DS 11 RC	F4261DS 11 RC 400-470 IDAS Waterproof BTL w/ BC160 01	$ 950.00	$ 596.13
F4261DS 15	F4261DS 15 400-470 IDAS Water proof BTL GPS	$ 950.00	$ 596.13
F4261DS 15 RC	F4261DS 15 RC 400-470 IDAS Waterproof BTL GPS w/ BC160 01	$ 1,015.00	$ 636.91
F4261DS 36	F4261DS 36 450-512 IDAS Water proof BTL	$ 885.00	$ 555.34
F4261DS 36 RC	F4261DS 36 RC 450-512 IDAS Waterproof BTL w/ BC160 01	$ 950.00	$ 596.13
F4261DS 40	F4261DS 40 450-512 IDAS Water proof BTL GPS	$ 950.00	$ 596.13
F4261DS 40 RC	F4261DS 40 RC 450-512 IDAS Waterproof BTL GPS w/ BC160 01	$ 1,015.00	$ 636.91
F4261DT 01	F4261DT 01 400-470 IDAS Water proof BTL	$ 905.00	$ 567.89
F4261DT 01 RC	F4261DT 01 RC 400-470 IDAS Waterproof BTL w/ BC160 01	$ 970.00	$ 608.68
F4261DT 05	F4261DT 05 400-470 IDAS Water proof BTL GPS	$ 970.00	$ 608.68
F4261DT 05 RC	F4261DT 05 RC 400-470 IDAS Waterproof BTL GPS w/ BC160 01	$ 1,035.00	$ 649.46
F4261DT 31	F4261DT 31 450-512 IDAS Water proof BTL	$ 905.00	$ 567.89
F4261DT 31 RC	F4261DT 31 RC 450-512 IDAS Waterproof BTL w/ BC160 01	$ 970.00	$ 608.68
F4261DT 35	F4261DT 35 450-512 IDAS Water proof BTL GPS	$ 970.00	$ 608.68
F4261DT 35 RC	F4261DT 35 RC 450-512 IDAS Waterproof BTL GPS w/ BC160 01	$ 1,035.00	$ 649.46
F50 31	F50 31 136-174MHz LMR/PMR HH Built-In Voice Scrambler	$ 665.00	$ 417.29
F50 31 DTC	F50 31 DTC Desktop Trickle Charger Pkg BC152 01/BC147A 11	$ 720.00	$ 451.80
F50 31 RC	F50 31 RC Desktop Rapid Chargr Package BC119N 51	$ 760.00	$ 476.90
F50 31 SC	F50 31 SC Sensor Charger Pkg. BC190 01	$ 744.00	$ 466.86
F50 81	F50 81 136-174MHz LMR/PMR HH IS Version	$ 675.00	$ 423.56
F50 81 DTC	F50 81 DTC Desktop Trickle Charger Package BC152/BC147A	$ 730.00	$ 458.08
F50 81 RC	F50 81 RC Desktop Rapid Chargr Package BC119N 51	$ 770.00	$ 483.18
F50 81 SC	F50 81 SC Sensor Charger Pkg. BC190 01	$ 754.00	$ 473.14
F5011 51	F5011 51 136-174MHz No Display Low End Mobile--Replaces F121S	$ 360.00	$ 225.90
F5011 51B	F5011 51B Low End No Display Mobile Power Supply & Cabinet	$ 590.00	$ 370.23
F5021 51	F5021 51 136-174MHz 50W Mobile Replaces F121	$ 415.00	$ 260.41
F5021 51B	F5021 51B F5021 51 + ICT PS 136-174MHz 50W / Power Supply	$ 645.00	$ 404.74
F5061 11	F5061 11 LMR 136-174MHz 50W Analog, LTR	$ 625.00	$ 392.19
F5061 11B	F5061 11B LMR Base Station ICT PS F5061 136-174MHz 50W	$ 855.00	$ 536.51
F5061D 31	F5061D 31 LMR 136-174MHz 50W UT126 Installed for 6.25	$ 825.00	$ 517.69
F5061D 31B	F5061D 31B LMR Base Station ICT PS F5061D 31 136-174MHz	$ 1,055.00	$ 662.01
F5061D 41 RR	F5061D 41 RR 136-174 50W HM148T	$ 906.00	$ 568.52
F5061D 41B RR	F5061D 41B RR 136-174MHz with ICT PS/Cabinet and HM148T	$ 1,136.00	$ 712.84
F50V 01	F50V 01 136-174 BTL *No Voice / Vibrate	$ 520.00	$ 326.30
F50V 01 DTC	F50V 01 DTC Desktop Trickle Charger Pkg BC152 01/BC147A 11	$ 575.00	$ 360.81
F50V 01 RC	F50V 01 RC Desktop Rapid Charg Package BC119N 51	$ 615.00	$ 385.91

Model	Description	Retail	State Price
F50V 01 SC	F50V 01 SC Sensor Charger Pkg. BC190 01	$ 599.00	$ 375.87
F50V 01 SC 220V	F50V 01 SC 220V Sensor Charger Pkg. BC190 02	$ 600.00	$ 376.50
F50V 11	F50V 11 136-174 VOICE VIBRATE MDC1200	$ 640.00	$ 401.60
F50V 11 DTC	F50V 11 DTC Desktop Trickle Charger Pkg BC152 01/BC147A 11	$ 695.00	$ 436.11
F50V 11 RC	F50V 11 RC Desktop Rapid Charg Package BC119N 51	$ 735.00	$ 461.21
F50V 11 SC	F50V 11 SC Sensor Charger Pkg. BC190 01	$ 719.00	$ 451.17
F50V 11 SC 220V	F50V 11 SC 220V Sensor Charger Pkg. BC190 02	$ 720.00	$ 451.80
F5121D 51	F5121D 51 IDAS Midrange Mobile Radio; 50W; 128 Channels	$ 675.00	$ 423.56
F5121D 51B	F5121D 51B IDAS Midrange Mobil Radio 50W; 128 Channels w/PS	$ 905.00	$ 567.89
F60 81	F60 81 400-470MHz LMR/PMR HH IS Version w/ BP227FM	$ 695.00	$ 436.11
F60 81 DTC	F60 81 DTC Desktop Trickle Charger Package BC152/BC147A	$ 750.00	$ 470.63
F60 81 RC	F60 81 RC Desktop Rapid Chargr Package BC119N 51	$ 790.00	$ 495.73
F60 81 SC	F60 81 SC Sensor Charger Pkg. BC190 01	$ 774.00	$ 485.69
F60 82	F60 82 450-512MHz LMR/PMR HH IS Version w/ BP227FM	$ 695.00	$ 436.11
F60 82 DTC	F60 82 DTC Desktop Trickle Charger Package BC152/BC147A	$ 750.00	$ 470.63
F60 82 RC	F60 82 RC Desktop Rapid Chargr Package BC119N 51	$ 790.00	$ 495.73
F60 82 SC	F60 82 SC Sensor Charger Pkg. BC190 01	$ 774.00	$ 485.69
F6011 51	F6011 51 400-470MHz No Display Low End Mobile--Replaces F221S	$ 360.00	$ 225.90
F6011 51B	F6011 51B Low End No Display Mobile Power Supply & Cabinet	$ 590.00	$ 370.23
F6011 52	F6011 52 450-512MHz No Display Low End Mobile--Replaces F221S	$ 360.00	$ 225.90
F6011 52B	F6011 52B Low End No Display Mobile Power Supply & Cabinet	$ 590.00	$ 370.23
F6021 51	F6021 51 400-470MHz 45W Mobile Replaces F221	$ 415.00	$ 260.41
F6021 51B	F6021 51B F6021 51 + ICT PS 400-470MHz 45W / Power Supply	$ 645.00	$ 404.74
F6021 52	F6021 52 450-520MHz 45W Mobile Replaces F221	$ 415.00	$ 260.41
F6021 52B	F6021 52B F6021 52 + ICT PS 450-520MHz 45W / Power Supply	$ 645.00	$ 404.74
F6061 11	F6061 11 LMR 400-470MHz 45W 6.25kHz	$ 625.00	$ 392.19
F6061 11B	F6061 11B LMR Base Station ICT PS F6061 400-470MHz 45W	$ 855.00	$ 536.51
F6061 16	F6061 16 LMR 450-520MHz 45W 6.25kHz	$ 625.00	$ 392.19
F6061 16B	F6061 16B LMR Base Station ICT PS F6061 450-520MHz 45W	$ 855.00	$ 536.51
F6061D 31	F6061D 31 LMR 400-470MHz 45W 6.25kHz Digital Unit Installed	$ 825.00	$ 517.69
F6061D 31B	F6061D 31B LMR 400-470MHz 45W ICT PS F6061D 31 400-470MHz	$ 1,055.00	$ 662.01
F6061D 36	F6061D 36 LMR 450-512MHz 45W 6.25kHz Digital Unit Installed	$ 825.00	$ 517.69
F6061D 36B	F6061D 36B LMR Base Station ICT PS F6061D 36 450-512MHz	$ 1,055.00	$ 662.01
F60V 01	F60V 01 400-470MHz LMR/PMR HH	$ 520.00	$ 326.30
F60V 01 DTC	F60V 01 DTC Desktop Trickle Charger Pkg BC152 01/BC147A 11	$ 575.00	$ 360.81
F60V 01 RC	F60V 01 RC Desktop Rapid Charger Package BC119N 51	$ 615.00	$ 385.91
F60V 01 SC	F60V 01 SC Sensor Charger Pkg. BC190 01	$ 599.00	$ 375.87
F60V 01 SC 220V	F60V 01 SC 220V Sensor Charger Pkg. BC190 02	$ 600.00	$ 376.50
F60V 11	F60V 11 400-470MHz LMR/PMR HH Voice/Vibrate	$ 560.00	$ 351.40
F60V 11 DTC	F60V 11 DTC Desktop Trickle Charger Pkg BC152 01/BC147A 11	$ 615.00	$ 385.91
F60V 11 RC	F60V 11 RC Desktop Rapid Charger Package BC119N 51	$ 655.00	$ 411.01
F60V 11 SC	F60V 11 SC Sensor Charger Pkg. BC190 01	$ 639.00	$ 400.97
F60V 11 SC 220V	F60V 11 SC 220V Sensor Charger Pkg. BC190 02	$ 640.00	$ 401.60
F60V 16	F60V 16 450-512MHz LMR/PMR HH	$ 520.00	$ 326.30
F60V 16 DTC	F60V 16 DTC Desktop Trickle Charger Pkg BC152 01/BC147A 11	$ 575.00	$ 360.81
F60V 16 RC	F60V 16 RC Desktop Rapid Charger Package BC119N 51	$ 615.00	$ 385.91
F60V 16 SC	F60V 16 SC Sensor Charger Pkg. BC190 01	$ 599.00	$ 375.87
F60V 16 SC 220V	F60V 16 SC 220V Sensor Charger Pkg. BC190 02	$ 600.00	$ 376.50
F60V 18	F60V 18 LMR/PMR HH 450-512MHz Voice/Vibrate	$ 560.00	$ 351.40
F60V 18 DTC	F60V 18 DTC Desktop Trickle Charger Pkg BC152 01/BC147A 11	$ 615.00	$ 385.91
F60V 18 RC	F60V 18 RC Desktop Rapid Charger Package BC119N 51	$ 655.00	$ 411.01
F60V 18 RC 220V	F60V 18 RC 220V Desktop Rapid Charger Pkg BC119N 02 + AD100	$ 663.00	$ 416.03
F60V 18 SC	F60V 18 SC Sensor Charger Pkg. BC190 01	$ 639.00	$ 400.97
F60V 18 SC 220V	F60V 18 SC 220V Sensor Charger Pkg. BC190 02	$ 640.00	$ 401.60
F6121D 51	F6121D 51 IDAS Midrange Mobile Radio; 45W; 128 Channels	$ 675.00	$ 423.56
F6121D 51B	F6121D 51B IDAS Midrange Mobil Radio 45W; 128 Channels w/PS	$ 905.00	$ 567.89
F6121D 52	F6121D 52 IDAS Midrange Mobile Radio; 50W; 128 Channels	$ 675.00	$ 423.56
F6121D 52B	F6121D 52B IDAS Midrange Mobil Radio 45W; 128 Channels w/PS	$ 905.00	$ 567.89
F70DS 01	F70DS 01 136-174MHz Vers. P25	$ 1,310.00	$ 822.03
F70DS 01 RC	F70DS 01 RC Desktop Rapid Chrg Package BC119N 61	$ 1,400.00	$ 878.50
F70DS 04	F70DS 04 136-174MHz FIPS P25 AES *100 Min Special Order	$ 2,520.00	$ 1,581.30
F70DS 04 RC	F70DS 04 RC Desktop Rapid Chrg Package BC119N 61	$ 2,605.00	$ 1,634.64
F70DS 21	F70DS 21 IS 136-174MHz P25	$ 1,850.00	$ 1,160.88
F70DS 21 RC	F70DS 21 RC Desktop Rapid Chrg Package BC119N 61	$ 1,935.00	$ 1,214.21
F70DT 11	F70DT 11 136-174MHz Vers. P25 Keypad	$ 1,370.00	$ 859.68
F70DT 11 RC	F70DT 11 RC Desktop Rapid Chrg Package BC119N 61	$ 1,465.00	$ 919.29
F70DT 14	F70DT 14 136-174MHz FIPS Keypad P25 AES	$ 2,620.00	$ 1,644.05
F70DT 14 RC	F70DT 14 RC Desktop Rapid Chrg Package BC119N 61	$ 2,705.00	$ 1,697.39
F70DT 14 RC AES	F70DT 14 RC AES F70DT 11 + AES BC119N 61	$ 2,176.00	$ 1,365.44
F70DT 31	F70DT 31 IS 136-174MHz P25 Keypad	$ 1,950.00	$ 1,223.63
F70DT 31 RC	F70DT 31 RC Desktop Rapid Chrg Package BC119N 61	$ 2,035.00	$ 1,276.96
F70S 23	F70S 23 IS 136-174MHz Analog Intrinsically Safe	$ 925.00	$ 580.44
F70S 23 RC	F70S 23 RC Desktop Rapid Chrgr Package BC119N 61	$ 1,010.00	$ 633.78
F70T 33	F70T 33 IS 136-174MHz Analog Keypad	$ 975.00	$ 611.81
F70T 33 RC	F70T 33 RC Desktop Rapid Chrgr Package BC119N 61	$ 1,060.00	$ 665.15
F8100 21	F8100 21 *SO* 1.6-30MHz Mobile AD119 11	$ 4,550.00	$ 2,855.13
F8100 23	F8100 23 *SO* 1.6-30MHz Mobile AD119 11 FCC	$ 4,550.00	$ 2,855.13
F9011B 01	F9011B 01 136-174MHz P25 Trunking No LCD	$ 1,905.00	$ 1,195.39

Model	Description	Retail	State Price
F9011B 01 RC	F9011B 01 RC 136-174MHz P25 Trunking No LCD BC119N 61	$ 2,000.00	$ 1,255.00
F9011S 05	F9011S 05 136-174MHz P25 Trunking w LCD	$ 3,130.00	$ 1,964.08
F9011S 05 RC	F9011S 05 RC 136-174MHz P25 Trunking w LCD BC119N 61	$ 3,210.00	$ 2,014.28
F9011T 10	F9011T 10 136-174MHz P25 Trunking w LCD Full Key	$ 3,525.00	$ 2,211.94
F9011T 10 RC	F9011T 10 RC 136-174MHz P25 Trunking BC119N 61	$ 3,605.00	$ 2,262.14
F9021B 01	F9021B 01 *SO* 400-470MHz P25 Trunking No Key	$ 1,905.00	$ 1,195.39
F9021B 01 RC	F9021B 01 RC *SO* 400-470MHz P25 Trunking BC119N 61	$ 2,000.00	$ 1,255.00
F9021B 41	F9021B 41 *SO* 380-470MHz P25 Trunking No Key	$ 1,905.00	$ 1,195.39
F9021B 41 RC	F9021B 41 RC *SO* 380-470MHz P25 Trunking BC119N 61	$ 2,000.00	$ 1,255.00
F9021S 05	F9021S 05 *SO* 400-470MHz P25 Trunking	$ 3,130.00	$ 1,964.08
F9021S 05 RC	F9021S 05 RC *SO* 400-470MHz P25 Trunking BC119N 61	$ 3,210.00	$ 2,014.28
F9021S 25	F9021S 25 *SO* 450-520MHz P25 Trunking	$ 3,130.00	$ 1,964.08
F9021S 25 RC	F9021S 25 RC *SO* 450-520MHz P25 Trunking BC119N 61	$ 3,210.00	$ 2,014.28
F9021S 45	F9021S 45 *SO* 380-470MHz P25 Trunking	$ 3,130.00	$ 1,964.08
F9021S 45 RC	F9021S 45 RC *SO* 380-470MHz P25 Trunking BC119N 61	$ 3,210.00	$ 2,014.28
F9021T 10	F9021T 10 *SO* 400-470MHz P25 Trunking Keypad	$ 3,525.00	$ 2,211.94
F9021T 10 RC	F9021T 10 RC *SO* 400-470MHz P25 Trunking BC119N 61	$ 3,605.00	$ 2,262.14
F9021T 50	F9021T 50 380-470MHz P25 Trunking Keypad	$ 3,525.00	$ 2,211.94
F9021T 50 RC	F9021T 50 RC 380-470MHz P25 Trunking BC119N 61	$ 3,605.00	$ 2,262.14
F9511HT 01	F9511HT 01 136-174MHz 110W P25 Trunking *No Ext Spkr Incl*	$ 3,520.00	$ 2,208.80
F9511HT 01B	F9511HT 01B 136-174MHz P25 Trunking Keypad w Power Supply	$ 4,120.00	$ 2,585.30
F9511S 01	F9511S 01 136-174 50W P25 Trunking No Keypad	$ 2,860.00	$ 1,794.65
F9511S 01B	F9511S 01B 136-174 50W P25 Trunking No Keypad + Power Sup	$ 3,060.00	$ 1,920.15
F9511T 05	F9511T 05 136-174 50W P25 Trunking Full Keypad	$ 3,060.00	$ 1,920.15
F9511T 05B	F9511T 05B 136-174 50W P25 Trunking Full Keypad + Pwr Sup	$ 3,260.00	$ 2,045.65
F9521S 01	F9521S 01 *SO* 400-470MHz P25* Trunking	$ 2,860.00	$ 1,794.65
F9521S 01B	F9521S 01B *SO* 400-470MHz P25 Trunking w Power Supply	$ 3,060.00	$ 1,920.15
F9521T 05	F9521T 05 *SO* 400-470MHz P25 Trunking Keypad 45W	$ 3,060.00	$ 1,920.15
F9521T 05B	F9521T 05B *SO* 400-470MHz P25 Trunking Keypad w Power Supply	$ 3,260.00	$ 2,045.65
FR5000 01	FR5000 01 136-174MHz Repeater 50W, Digital Enabled	$ 2,165.00	$ 1,358.54
FR5000 01 2CH KIT 140-145	IDAS 2 channel conventional system kit (136-174 MHz)	$ 3,800.00	$ 2,384.50
FR5000 01 2CH KIT 150-153	IDAS 2 channel conventional system kit (136-174 MHz)	$ 3,800.00	$ 2,384.50
FR5000 01 2CH KIT 150-159	IDAS 2 channel conventional system kit (136-174 MHz)	$ 3,800.00	$ 2,384.50
FR5000 01 2CH KIT 152-155	IDAS 2 channel conventional system kit (136-174 MHz)	$ 3,800.00	$ 2,384.50
FR5000 01 2CH KIT 160-165	IDAS 2 channel conventional system kit (136-174 MHz)	$ 3,800.00	$ 2,384.50
FR5000 01 2CH KIT 165-168	IDAS 2 channel conventional system kit (136-174 MHz)	$ 3,800.00	$ 2,384.50
FR5000 01 UR KIT	FR5000 01 UR KIT FR5000 01 + URFR5000 41	$ 2,535.00	$ 1,590.71
FR5000 2CH KIT 150-155	FR5000 2CH KIT *DO NOT USE*	$ 3,646.67	$ 2,288.29
FR6000 01	FR6000 01 400-470MHz Repeater 50W, Digital Enabled	$ 2,165.00	$ 1,358.54
FR6000 01 2CH KIT 400-405	IDAS 2 channel conventional system kit (400-470 MHz)	$ 3,800.00	$ 2,384.50
FR6000 01 2CH KIT 415-420	IDAS 2 channel conventional system kit (400-470 MHz)	$ 3,800.00	$ 2,384.50
FR6000 01 2CH KIT 440-445	IDAS 2 channel conventional system kit (400-470 MHz)	$ 3,800.00	$ 2,384.50
FR6000 01 2CH KIT 450-455	IDAS 2 channel conventional system kit (400-470 MHz)	$ 3,800.00	$ 2,384.50
FR6000 01 2CH KIT 457-462	FR6000 01 2CH KIT 457-462 IDAS 2 Ch Conventional System Kit	$ 3,800.00	$ 2,384.50
FR6000 01 2CH KIT 460-465	IDAS 2 channel conventional system kit (400-470 MHz)	$ 3,800.00	$ 3,799.63
FR6000 01 UR KIT	FR6000 01 UR KIT FR6000 01 + URFR6000 41	$ 2,535.00	$ 1,590.71
FR6000 11	FR6000 11 450-520MHz Repeater 50W, Digital Enabled	$ 2,165.00	$ 1,358.54
FR6000 11	FR6000 11 450-520MHz Repeater 50W, Digital Enabled	$ 2,165.00	$ 1,358.54
FR6000 11 2CH KIT 450-455	IDAS 2 channel conventional system kit (450-520 MHz)	$ 3,800.00	$ 2,384.50
FR6000 11 2CH KIT 457-462	FR6000 11 2CH KIT 457-462 IDAS 2 Ch Conventional System Kit	$ 3,800.00	$ 2,384.50
FR6000 11 2CH KIT 460-465	IDAS 2 channel conventional system kit (450-520 MHz)	$ 3,800.00	$ 2,384.50
FR6000 11 UR KIT	FR6000 11 UR KIT FR6000 11 + URFR6000 51	$ 2,535.00	$ 1,590.71
IAS 100DU 01	IAS 100DU 01 NXDN 100W 400-470 Base Station Repeater	$ 5,050.00	$ 3,168.88
IAS 100DU 01 PUBLIC SAFETY	IAS 100DU 01 PUBLIC SAFETY NXDN 100W 400-470 Repeater	$ 5,890.00	$ 3,695.98
IAS 100DU 11	IAS 100DU 11 NXDN 100W 450-520 Base Station Repeater	$ 5,050.00	$ 3,168.88
IAS 100DU 11 PUBLIC SAFETY	450-520 MHz, 100W 100% duty cycle base/repeater (public safety version)	$ 5,890.00	$ 3,695.98
IAS 100DV	IAS 100DV NXDN 100W 136-174Mhz Base Station Repeater BBU PS	$ 5,050.00	$ 3,168.88
IAS 100DV PUBLIC SAFETY	IAS 100DV PUBLIC SAFETY NXDN 100W 136-174 Repeater	$ 5,890.00	$ 3,695.98
IAS 100WU 03	IAS 100WU 03 Base/Repeater UHF 450-480MHz	$ 5,250.00	$ 3,294.38
IAS 100WV	IAS 100WV Base/Repeater VHF	$ 5,250.00	$ 3,294.38
IAS HPUK F1721 03	IAS HPUK F1721 03 High Power 110W Upgrade Kit	$ 2,100.00	$ 1,317.75
IAS HPUK F1721D 01	IAS HPUK F1721D 01 High Power 110W Upgrade Kit	$ 2,900.00	$ 1,819.75
IAS HPUK F1821D 11	IAS HPUK F1821D 11 High Power 110W Upgrade Kit	$ 3,000.00	$ 1,882.50
IAS VOTING RX UHF	IAS VOTING RX UHF 460MHz Center Frequency	$ 2,833.34	$ 1,777.92
IAS VOTING RX VHF	IAS VOTING RX VHF 150-174MHz VHF Voting Receiver	$ 2,833.34	$ 1,777.92
IAS X-BAND 50	IAS X-BAND 50 Cross Band Rptr Analog Introperability VHF-UHF	$ 2,500.00	$ 1,568.75
IAS X-BAND 50	IAS X-BAND 50 Cross Band Rptr Analog Introperability VHF-UHF	$ 2,500.00	$ 1,568.75
IAS X-BAND 50 AIR U	IAS X-BAND 50 U AIR Cross Band Repeater Base, UHF FM-VHF Air	$ 3,250.00	$ 2,039.38
IAS X-BAND 50 AIR V	IAS X-BAND 50 AIR V Cross Band Repeater Base F121 and A110	$ 3,250.00	$ 2,039.38
IAS X-BAND 50 UU	IAS X-BAND 50 UU UHF-UHF Cross Band Repeater Base, AC Pwr Sup	$ 2,500.00	$ 1,568.75
IAS X-BAND 50 VV	IAS X-BAND 50 VV VHF-VHF Cross Band Repeater Base, AC Pwr Sup	$ 2,500.00	$ 1,568.75
RF BS-E2-150A-H/BC/CH1	Eclipse 2 136-174MHz 100W Analog	$ 8,467.00	$ 3,923.12
RF BS-E2-150A-L/BC/CH1	Eclipse 2 136-174MHz 60W Analog	$ 8,166.00	$ 3,783.71
RF BS-E2-500A-H/BC/CH1	Eclipse 2 400-430MHz 100W Analog	$ 6,986.60	$ 4,384.09
RF BS-E2-500A-L/BC/CH1	Eclipse 2 400-430MHz 60W Analog	$ 6,514.20	$ 4,087.66
RF BS-E2-500B-H/BC/CH1	Eclipse 2 440-490MHz 100W Analog	$ 6,986.60	$ 4,384.09
RF BS-E2-500B-L/BC/CH1	Eclipse 2 440-490MHz 60W Analog	$ 6,514.20	$ 4,087.66
RF BS-E2-500C-H/BC/CH1	Eclipse 2 485-520MHz 100W Analog	$ 6,986.60	$ 4,384.09

Model	Description	Retail	State Price
RF BS-E2-500C-L/BC/CH1	Eclipse 2 485-520MHz 60W Analog	$ 6,514.20	$ 4,087.66
RF P25-C/BS-E2-150A-H/BC/CH1	Eclipse 2 136-174MHz 100W P25 Conventional	$ 9,420.30	$ 5,911.24
RF P25-C/BS-E2-150A-L/BC/CH1	Eclipse 2 136-174MHz 60W P25 Conventional	$ 9,183.30	$ 5,762.52
RF P25-C/BS-E2-500A-H/BC/CH1	Eclipse 2 400-430MHz 100W P25 Conventional	$ 9,737.60	$ 6,110.34
RF P25-C/BS-E2-500A-L/BC/CH1	Eclipse 2 400-430MHz 60W P25 Conventional	$ 9,265.20	$ 5,813.91
RF P25-C/BS-E2-500B-H/BC/CH1	Eclipse 2 440-490MHz 100W P25 Conventional	$ 9,737.60	$ 6,110.34
RF P25-C/BS-E2-500B-L/BC/CH1	Eclipse 2 440-490MHz 60W P25 Conventional	$ 9,265.20	$ 5,813.91
RF P25-C/BS-E2-500C-H/BC/CH1	Eclipse 2 485-520MHz 100W P25 Conventional	$ 9,737.60	$ 6,110.34
RF P25-C/BS-E2-500C-L/BC/CH1	Eclipse 2 485-520MHz 60W P25 Conventional	$ 9,265.20	$ 5,813.91
RFT 100W RPTR 136-174	Eclipse 2 136-174MHz 100W Analog with 12v Power Supply	$ 6,669.30	$ 4,184.99
RFT 100W RPTR 400-430	Eclipse 2 400-430MHz 100W Analog with 12v Power Supply	$ 6,986.60	$ 4,384.09
RFT 100W RPTR 440-490	Eclipse 2 440-490MHz 100W Analog with 12v Power Supply	$ 6,986.60	$ 4,384.09
RFT 100W RPTR 485-520	Eclipse 2 485-520MHz 100W Analog with 12v Power Supply	$ 6,986.60	$ 4,384.09
RFT 60W RPTR 136-174	Eclipse 2 136-174MHz 60W Analog with 12v Power Supply	$ 6,432.30	$ 4,036.27
RFT 60W RPTR 400-430	Eclipse 2 400-430MHz 60W Analog with 12v Power Supply	$ 6,514.20	$ 4,087.66
RFT 60W RPTR 440-490	Eclipse 2 440-490MHz 60W Analog with 12v Power Supply	$ 6,514.20	$ 4,087.66
RFT 60W RPTR 485-520	Eclipse 2 485-520MHz 60W Analog with 12v Power Supply	$ 5,414.20	$ 3,397.41
RFT P25 100W RPTR 136-174	Eclipse 2 136-174MHz 100W P25 Conventional with 12v Power Supply	$ 9,420.30	$ 5,911.24
RFT P25 100W RPTR 400-430	Eclipse 2 400-430MHz 100W P25 Conventional with 12v Power Supply	$ 9,737.60	$ 6,110.34
RFT P25 100W RPTR 440-490	Eclipse 2 440-490MHz 100W P25 Conventional with 12v Power Supply	$ 9,737.60	$ 6,110.34
RFT P25 100W RPTR 480-520	Eclipse 2 440-490MHz 100W P25 Conventional with 12v Power Supply	$ 9,737.60	$ 6,110.34
RFT P25 60W RPTR 136-174	Eclipse 2 136-174MHz 60W P25 Conventional with 12v Power Supply	$ 9,183.30	$ 5,762.52
RFT P25 60W RPTR 400-430	Eclipse 2 400-430MHz 60W P25 Conventional with 12v Power Supply	$ 9,265.20	$ 5,813.91
RFT P25 60W RPTR 440-490	Eclipse 2 440-490MHz 60W P25 Conventional with 12v Power Supply	$ 9,265.20	$ 5,813.91
RFT P25 60W RPTR 485-520	Eclipse 2 485-520MHz 60W P25 Conventional with 12v Power Supply	$ 9,265.20	$ 5,813.91
TPL PA3-1AE3-SMAS	TPL PA3-1AE3-SMAS 136-174Mhz SMAS PA Module 3-6WIn 100WOut	$ 2,905.00	$ 1,822.89
TPL PA3-2DF-HMS	TPL PA3-2DF-HMS HMS Series VHF 136-175Mhz 100% Duty Cycle	$ 11,061.25	$ 6,940.93
TPL PA6-2AE6-SMAS	TPL PA6-2AE6-SMAS 24V DC 100W UHF SMAS Amplifier	$ 3,370.00	$ 2,114.68
UCFR5000 01	UCFR5000 01 FR5000 / FR6000 Trunking / Network Controller	$ 500.00	$ 313.75
UCFR5000 01	UCFR5000 01 FR5000 / FR6000 Trunking / Network Controller	$ 500.00	$ 313.75
URFR5000 41	URFR5000 41 136-174MHz 50W, 12.5/25kHz Repeater	$ 1,205.00	$ 756.14
URFR6000 41	URFR6000 41 400-470MHz 50W, 12.5/25kHz Repeater	$ 1,205.00	$ 756.14
URFR6000 51	URFR6000 51 450-512MHz 50W, 12.5/25kHz Repeater	$ 1,205.00	$ 756.14
AVIONIC PRODUCT GROUP - Discount Rate is 49.25% from Published Retail.			
A110 24	A110 24 Mnt Type (VFO inhibit)	$ 1,559.00	$ 791.19
A110 24B	A110 24B A110 24 + ICT PS ICT CS120-12AG/ICO10	$ 1,799.00	$ 912.99
A110 24BE	A110 24BE A110 24 + ICT PS ICT IC010 220V	$ 1,829.00	$ 928.22
A110 25	A110 25 Mount Type Xcvr (VFO)	$ 1,559.00	$ 791.19
A110 25B	A110 25B A110 25 + ICT PS ICT CS120-12AG/ICO10	$ 1,799.00	$ 912.99
A110 25BE	A110 25BE A110 25 + ICT PS ICT IC010 220V	$ 1,829.00	$ 928.22
A14 21	A14 21 Entry Level Airband HH Full Keyboard	$ 399.00	$ 202.49
A14S 01	A14S 01 Simple Version	$ 397.00	$ 201.48
A210 25	A210 25 Mount Type Transceiver	$ 2,316.00	$ 1,175.37
A210 25B	A210 25B A210 25 + PS80 04	$ 3,316.00	$ 1,682.87
A210 25M	A210 25M A210 25 + MB53 02	$ 2,666.00	$ 1,353.00
A24 01	A24 01 Airband HH w/VOR	$ 599.00	$ 303.99
A6 30	A6 30 Airband COMM HH 8.33kHz	$ 514.00	$ 260.86
RECEIVERS PRODUCT GROUP - Discount Rate is 21.25% from Published Retail.			
R1500 05	R1500 05 Mobile/Base Type Rcvr with Controller	$ 776.00	$ 611.10
R20 06	R20 06 Blocked HH Receiver	$ 664.00	$ 522.90
R2500 05	R2500 05 Mobile/Base Type Rcvr with Controller	$ 1,156.00	$ 910.35
R6 16	R6 16 Blocked HH Receiver	$ 246.00	$ 193.73
R75 22	R75 22 HF+50MHz Receiver Twin PBT, PC Control, AF-DSP	$ 896.00	$ 705.60
R8500 32K	R8500 32 0.1-2000MHz Receiver Unblocked w/AD55S	$ 2,400.00	$ 1,890.00
R9500 02	R9500 02 0.1-3335MHz Receiver BLOCKED	$ 17,000.00	$ 13,387.50
PRODUCT GROUP ACCESSORIES - Discount Rate is 37.25% from Published Retail.			
94412907	94412907 T2H CD SERVICE MANUAL	$ 40.00	$ 25.10
94412908	94412908 T7H CD SERVICE MANUAL	$ 40.00	$ 25.10
94412910	94412910 706MK2G CD SERV MANUL	$ 40.00	$ 25.10
94412913	94412913 R75 CD SERVICE MANUL	$ 40.00	$ 25.10
94412917	94412917 F3 CD SERVICE MANUAL F3S F4 F4S	$ 40.00	$ 25.10
94412919	94412919 PW1 CD SERVE MANUAL	$ 40.00	$ 25.10
94413137	94413137 CD SERV MANUAL M1V	$ 40.00	$ 25.10
94413329	94413329 A110 CD SERVE MANUAL B100000356	$ 40.00	$ 25.10
94413333	94413333 R3 CD SERVICE MANUAL	$ 40.00	$ 25.10
94413342	94413342 718 CD SERVICE MANUAL	$ 40.00	$ 25.10
94413419	94413419 78 CD SERVICE MANUAL	$ 40.00	$ 25.10
94413505	94413505 A23 A5 CD SERVE MAN	$ 40.00	$ 25.10
94413511	94413511 F40GS/GT CD SERV MAN	$ 40.00	$ 25.10
94413609	94413609 M502 CD SERVICE MANUL	$ 40.00	$ 25.10
94413690	94413690 CD SERVICE MANUL 910H	$ 40.00	$ 25.10
94413693	94413693 CD SERVICE MANUL M402	$ 40.00	$ 25.10
94413794	94413794 CD SERVICE MANUAL V8	$ 40.00	$ 25.10
94414063	94414063 M2A CD SERVICE MANUAL	$ 40.00	$ 25.10
94414100	94414100 V8000 CD SERVICE MAN	$ 40.00	$ 25.10
94414314	94414314 CD SERVICE MANUAL F11 F11S F21 F21S	$ 40.00	$ 25.10
94414315	94414315 CD SERVICE MAN 746PRO	$ 40.00	$ 25.10
94414388	94414388 R20 CD SERV MAN	$ 40.00	$ 25.10

Model	Description	Retail	State Price
94414416	94414416 T90A CD SERVICE MANUL	$ 40.00	$ 25.10
94414481	94414481 F121 F121S F221 F221S CD SERVICE MANUAL	$ 40.00	$ 25.10
94414483	94414483 2720H CD SERVICE MAN	$ 40.00	$ 25.10
94414485	94414485 R5 CD SERVICE MANUAL	$ 40.00	$ 25.10
94414628	94414628 M88 CD SERVICE MANUAL	$ 40.00	$ 25.10
94414629	94414629 M602 CD SERVICE MAN B100000147	$ 40.00	$ 25.10
94414732	94414732 F500 F600 CD SVCMAN F520 F521 F610 F620 F621	$ 40.00	$ 25.10
94414733	94414733 703 CD SERVICE MANUAL	$ 40.00	$ 25.10
94414791	94414791 FR3000 CD SERVICE FR4000	$ 40.00	$ 25.10
94414803	94414803 CD SER MAN F30GS F30GT F40GS F40GT B900000005	$ 40.00	$ 25.10
94414804	94414804 CD SER MAN F50 F60	$ 40.00	$ 25.10
94414812	94414812 CD SERV MANUAL 208H	$ 40.00	$ 25.10
94414815	94414815 CD SERV MAN F43TR	$ 40.00	$ 25.10
94414818	94414818 CD SERV MAN M32 B100000154	$ 40.00	$ 25.10
94414819	94414819 CD SERV MAN 7800	$ 40.00	$ 25.10
94414820	94414820 CD SERV MANUAL 2200H	$ 40.00	$ 25.10
94414822	94414822 CD SERV MANUAL F4GS F4GT F3GS F3GT b100000460	$ 40.00	$ 25.10
94414825	94414825 M402A CD SERV MANUAL	$ 40.00	$ 25.10
94414830	94414830 M302 CD SERV MAN	$ 40.00	$ 25.10
94414836	94414836 M502A CD SERV MAN	$ 40.00	$ 25.10
94414860	94414860 M802 CD SERV MAN	$ 40.00	$ 25.10
94414894	94414894 SEE 94414845 F33GS F33GT F43GS	$ 40.00	$ 25.10
94414897	94414897 CD SERVICE MANUAL M90 M90E	$ 40.00	$ 25.10
94414900	94414900 CD SERVICE MANUAL V82 U82 B100000159	$ 40.00	$ 25.10
94414901	94414901 CD SVC MAN F1710 F1721 F1810 F2710 F2721	$ 40.00	$ 25.10
94414904	94414904 CD SERV MAN A24 A6 A24E A6E	$ 40.00	$ 25.10
94414905	94414905 CD SERV MAN 756PRO3	$ 40.00	$ 25.10
94414913	94414913 CD SER MANUAL F14 F24 F15 F25 *94414867 b100000168	$ 40.00	$ 25.10
94414927	94414927 SERV MANUAL CD GM1600	$ 40.00	$ 25.10
94414948	94414948 M422 SERV MAN CD B100000170	$ 40.00	$ 25.10
94414963	94414963 CD SERV MAN A22 A3	$ 40.00	$ 25.10
94414968	94414968 ID1 CD SERVICE MANUAL	$ 40.00	$ 25.10
94415029	94415029 CD SERVICE MAN P7A INCLUDES BC164	$ 40.00	$ 25.10
94415032	94415032 7000 CD SERV MANUAL B100000192	$ 40.00	$ 25.10
94415040	94415040 ID800H CD MANUAL ID-800H ID-800 ID800 SERVICE	$ 40.00	$ 25.10
94415064	94415064 CD SERV MANUAL M72 b100000199	$ 40.00	$ 25.10
94415076	94415076 CD SERVICE MANUAL MR1000 MR1000R MR1000T	$ 40.00	$ 25.10
94415078	94415078 CD SERV MANUAL M504	$ 40.00	$ 25.10
94415081	94415081 CD SERVICE MANUAL F3161 F4161 F3061 F4061	$ 40.00	$ 25.10
94415129	94415129 CD SERVICE MANUAL 91AD 91A	$ 40.00	$ 25.10
94415181	94415181 M604 CD SERV MANUAL	$ 40.00	$ 25.10
94415195	94415195 CD SERVICE MANUAL F3021 F4021 UPDATED	$ 40.00	$ 25.10
94415196	94415196 CD SERVICE MANUAL UPDATED F70 F80 *94414953	$ 40.00	$ 25.10
94415222	94415222 CD SERVICE MANUAL M34	$ 40.00	$ 25.10
94415231	94415231 CD SERVICE MANUAL V85	$ 40.00	$ 25.10
94415248	94415248 CD SERVICE MANUAL 2820H	$ 40.00	$ 25.10
94415251	94415251 CD SERVICE MANUAL F5060 F5061 F6060 F6061	$ 40.00	$ 25.10
94415254	94415254 CD SERVICE MANUAL R9500	$ 40.00	$ 25.10
94415333	94415333 CD SERV MANUAL 92AD	$ 40.00	$ 25.10
94415339	94415339 CD SERV MANUAL A14	$ 40.00	$ 25.10
94415352	94415352 CD SERVICE MAN 7700	$ 40.00	$ 25.10
94415355	94415355 FR6000 CD SERVICE	$ 40.00	$ 25.10
94415358	94415358 CD SERVICE MAN F60V F61V	$ 40.00	$ 25.10
94415376	94415376 CD SERVICE MANUAL F50V F51V	$ 40.00	$ 25.10
94415435	94415435 F9011 CD SERVICE	$ 40.00	$ 25.10
94415435	94415435 F9011 CD SERVICE	$ 40.00	$ 25.10
94415436	94415436 F9511 CD SERVICE	$ 40.00	$ 25.10
94415460	94415460 7600 CD SERVICE MAN	$ 40.00	$ 25.10
94415461	94415461 ID880H CD SERVICE	$ 40.00	$ 25.10
94415462	94415462 80AD CD SERVICE	$ 40.00	$ 25.10
94415463	94415463 CD SERVICE MANUAL MXA5000	$ 40.00	$ 25.10
94415491	94415491 F4011 CD SERVICE	$ 40.00	$ 25.10
94415494	94415494 F3011 CD SERVICE	$ 40.00	$ 25.10
94415499	94415499 CD SERVICE MANUAL F5020 F5021	$ 40.00	$ 25.10
94415503	94415503 F9521 CD MANUAL	$ 40.00	$ 25.10
94415505	94415505 F9021 CD SERVICE	$ 40.00	$ 25.10
94415507	94415507 CD SERVICE MANUAL F9511HT	$ 40.00	$ 25.10
94415514	94415514 FR5000 CD SERVICE	$ 40.00	$ 25.10
94415526	94415526 V80 CD SERVICE MANUAL	$ 40.00	$ 25.10
94415532	94415532 R6 CD SERVICE	$ 40.00	$ 25.10
94415538	94415538 7200 CD SERVICE	$ 40.00	$ 25.10
94415576	94415576 M412 CD SERVICE M412	$ 40.00	$ 25.10
94415578	94415578 MA500TR CD SERVICE MA500TR	$ 40.00	$ 25.10
94415593	94415593 F3101D CD SERVICE	$ 40.00	$ 25.10
94415596	94415596 F5011 CD SERVICE	$ 40.00	$ 25.10
94415599	94415599 7410 CD SERVICE	$ 40.00	$ 25.10
94415602	94415602 F3001 CD SERVICE F4001	$ 40.00	$ 25.10
94415605	94415605 M24 CD SERVICE	$ 40.00	$ 25.10

Model	Description	Retail	State Price
94415608	94415608 F5121D CD SERVICE	$ 40.00	$ 25.10
94415609	94415609 F4101D CD SERVICE	$ 40.00	$ 25.10
94415641	94415641 F6021 CD SERVICE	$ 40.00	$ 25.10
94415692	94415692 9100 CD SERVICE	$ 40.00	$ 25.10
94415695	94415695 F6121D CD SERVICE	$ 40.00	$ 25.10
94415697	94415697 F6011 CD SERVICE	$ 40.00	$ 25.10
94416500	94416500 M36 CD SERVICE	$ 40.00	$ 25.10
97712266	97712266 T22A SERVICE MANUAL T42A	$ 40.00	$ 25.10
97712277	97712277 W32A SERVICE MANUAL	$ 40.00	$ 25.10
97712282	97712282 GM1500 SERVICE MANUAL	$ 40.00	$ 25.10
97712311	97712311 F3 SERVICE MANUAL F3S F4 F4S	$ 40.00	$ 25.10
97712341	97712341 A3 A22 SERVICE MANUAL	$ 40.00	$ 25.10
97712343	97712343 A4 SERVICE MANUAL	$ 40.00	$ 25.10
97712352	97712352 R8500 SERVICE MANUAL	$ 40.00	$ 25.10
97712479	97712479 2100H SERVICE MANUAL	$ 40.00	$ 25.10
97712480	97712480 M700PRO SERV MANUAL	$ 40.00	$ 25.10
97712545	97712545 AH4 SERVICE MANUAL	$ 40.00	$ 25.10
97712547	97712547 USE 97713630 SERIAL #S UNDER 1165	$ 40.00	$ 25.10
97712853	97712853 T7H SERVICE MANUAL	$ 40.00	$ 25.10
97712854	97712854 T2H/E/T SERVICE MANUA	$ 40.00	$ 25.10
97712859	97712859 F410 F420 SERV MAN F410S F420S	$ 40.00	$ 25.10
97712860	97712860 706MK2G SER MANUAL	$ 40.00	$ 25.10
97712938	97712938 R75 SERVICE MANUAL	$ 40.00	$ 25.10
97713113	97713113 M710 SERVICE MANUAL W/GMDSS AT130 PS36 GM110	$ 40.00	$ 25.10
97713138	97713138 SERVICE MANUAL M1V	$ 40.00	$ 25.10
97713176	97713176 F3GS/GT SERVE MANUAL F3GT	$ 40.00	$ 25.10
97713328	97713328 F4G SERVICE MANUAL F4GT F4GS	$ 40.00	$ 25.10
97713330	97713330 A110 SERVICE MANUAL	$ 40.00	$ 25.10
97713334	97713334 R3 SERVICE MANUAL	$ 40.00	$ 25.10
97713343	97713343 718 SERVICE MANUAL	$ 40.00	$ 25.10
97713420	97713420 78 SERVICE MANUAL	$ 40.00	$ 25.10
97713507	97713507 A23 A5 SERVICE MANUAL	$ 40.00	$ 25.10
97713510	97713510 F30G SERVICE MANUAL F30GS F30GT SERVICE MANUAL	$ 40.00	$ 25.10
97713513	97713513 F40G SERVICE MANUAL F40GS F40GT SERVICE MANUAL	$ 40.00	$ 25.10
97713610	97713610 M502 SERVICE MANUAL	$ 40.00	$ 25.10
97713691	97713691 SERVICE MANUAL 910H	$ 40.00	$ 25.10
97713694	97713694 SERVICE MANUAL M402	$ 40.00	$ 25.10
97713705	97713705 SERVICE MANUAL F21 F21S	$ 40.00	$ 25.10
97713779	97713779 SERVICE MANUAL V8	$ 40.00	$ 25.10
97713930	97713930 SERVICE MANUAL F11 F11S F12 F12S	$ 40.00	$ 25.10
97714061	97714061 M2A SERVICE MANUAL	$ 40.00	$ 25.10
97714064	97714064 F4TR SERVICE MANUAL	$ 40.00	$ 25.10
97714097	97714097 V8000 SERVICE MANUAL	$ 40.00	$ 25.10
97714190	97714190 F510 F520 SERVICE MAN F521 SERVICE MANUAL	$ 40.00	$ 25.10
97714197	97714197 M802 SERVICE MANUAL	$ 40.00	$ 25.10
97714417	97714417 T90A SERVICE MANUAL	$ 40.00	$ 25.10
97714484	97714484 2720H SERVICE MANUAL	$ 40.00	$ 25.10
97714486	97714486 R5 SERVICE MANUAL	$ 40.00	$ 25.10
97714614	97714614 M602 SERVICE MANUAL	$ 40.00	$ 25.10
97714627	97714627 M88 SERVICE MANUAL	$ 40.00	$ 25.10
97714679	97714679 F221S SERVICE MANUAL F210S F211S	$ 40.00	$ 25.10
97714680	97714680 F121S SERVICE MANUAL F110S F111S	$ 40.00	$ 25.10
97714750	97714750 703 SERV MAN	$ 40.00	$ 25.10
97714766	97714766 FR4000 SER MAN	$ 40.00	$ 25.10
97714774	97714774 F121 SERV MAN F110 F111	$ 40.00	$ 25.10
97714775	97714775 F221 SERV MAN	$ 40.00	$ 25.10
97714794	97714794 FR3000 SER MAN	$ 40.00	$ 25.10
97714796	97714796 SERV MAN BC119N	$ 40.00	$ 25.10
97714806	97714806 SERV MAN F50 F51	$ 40.00	$ 25.10
97714811	97714811 SERV MAN F60 F61	$ 40.00	$ 25.10
97714813	97714813 SERV MANUAL 208H	$ 40.00	$ 25.10
97714816	97714816 SERV MAN F43TR	$ 40.00	$ 25.10
97714824	97714824 SERV MANUAL M32	$ 40.00	$ 25.10
97714831	97714831 M302 SERV MAN	$ 40.00	$ 25.10
97714833	97714833 4088 SERV MAN 4088A	$ 40.00	$ 25.10
97714840	97714840 R20 SERV MAN	$ 40.00	$ 25.10
97714841	97714841 M502A SERV MAN	$ 40.00	$ 25.10
97714847	97714847 2200H SERV MANUAL	$ 40.00	$ 25.10
97714874	97714874 use 97715349	$ 40.00	$ 25.10
97714881	97714881 M402A SERV MANUAL	$ 40.00	$ 25.10
97714895	97714895 SERVICE MANUAL F33GS F33GT F34GS F34GT	$ 40.00	$ 25.10
97714898	97714898 SERVICE MANUAL M90 M90E	$ 40.00	$ 25.10
97714915	97714915 SERV MANUAL A24 A6 A24E A6E	$ 40.00	$ 25.10
97714916	97714916 SERV MANUAL V82	$ 40.00	$ 25.10
97714917	97714917 SERV MANUAL F1721/D F1710 F1821/D F1810	$ 40.00	$ 25.10
97714922	97714922 SER MANUAL F14 F15 *97714886 F14S F15S	$ 40.00	$ 25.10
97714932	97714932 F24 SERV MANUAL F24S F25 F25S	$ 40.00	$ 25.10
97714933	97714933 SERV MAN F70T F70S F70DT F70DS F70	$ 40.00	$ 25.10

Model	Description	Retail	State Price
97714940	97714940 SERV MAN U82	$ 40.00	$ 25.10
97714949	97714949 M422 SERVICE MANUAL	$ 40.00	$ 25.10
97714972	97714972 SERV MANUAL F80 F80D	$ 40.00	$ 25.10
97715017	97715017 SERV MAN F2721 F2710 F2821 F2810	$ 40.00	$ 25.10
97715035	97715035 SERVICE MANUAL 7000	$ 40.00	$ 25.10
97715038	97715038 SER MAN P7A_BC164	$ 40.00	$ 25.10
97715066	97715066 SERVICE MANUAL M72	$ 40.00	$ 25.10
97715077	97715077 SERVICE MANUAL MR1000 MR1000R MR1000T	$ 40.00	$ 25.10
97715079	97715079 SERVICE MANUAL M504	$ 40.00	$ 25.10
97715082	97715082 SERVICE MAN F3061T/S F3062 F3063 F3161	$ 40.00	$ 25.10
97715091	97715091 SERVICE MANUAL ID1	$ 40.00	$ 25.10
97715100	97715100 SERVICE MANUAL A200 REVISED 4-06	$ 40.00	$ 25.10
97715131	97715131 91AD SERVICE MANUAL 91A	$ 40.00	$ 25.10
97715148	97715148 SERVICE MANUAL F3021 F3022 F3023	$ 40.00	$ 25.10
97715149	97715149 SERVICE MANUAL GM1600	$ 40.00	$ 25.10
97715171	97715171 SERVICE MANUAL F4021 F4022 F4023	$ 40.00	$ 25.10
97715182	97715182 M604 SERVICE MANUAL	$ 40.00	$ 25.10
97715223	97715223 SERVICE MANUAL M34	$ 40.00	$ 25.10
97715232	97715232 SERVICE MANUAL V85	$ 40.00	$ 25.10
97715249	97715249 SERVICE MANUAL 2820H	$ 40.00	$ 25.10
97715252	97715252 SERVICE MANUAL F5060 F5061	$ 40.00	$ 25.10
97715259	97715259 SERVICE MANUAL F6061 F6060	$ 40.00	$ 25.10
97715290	97715290 IDRP4000V SERV MANUAL RP4000V IDRP4000	$ 40.00	$ 25.10
97715313	97715313 SERVICE MANUAL 06-07 VERSION 756PRO3	$ 40.00	$ 25.10
97715315	97715315 A210 SERVICE MANUAL	$ 40.00	$ 25.10
97715317	97715317 SERVICE MANUAL F50V F51V	$ 40.00	$ 25.10
97715331	97715331 SERVICE MANUAL 92AD	$ 40.00	$ 25.10
97715337	97715337 SERVICE MANUAL A14	$ 40.00	$ 25.10
97715346	97715346 HM175GPS HM174 HM169 HM170GPS SCHEMATIC INCLUDED	$ 40.00	$ 25.10
97715347	97715347 746PRO NEW VERSION	$ 40.00	$ 25.10
97715348	97715348 FR6000 SERVICE	$ 40.00	$ 25.10
97715351	97715351 SERVICE MANUAL 7700	$ 40.00	$ 25.10
97715356	97715356 SERVICE MANUAL F60V F61V	$ 40.00	$ 25.10
97715370	97715370 FR5000 SERVICE MANUAL	$ 40.00	$ 25.10
97715395	97715395 7800 SERVICE MANUAL REVISED 8/15/08	$ 40.00	$ 25.10
97715409	97715409 7200 SERVICE MANUAL	$ 40.00	$ 25.10
97715423	97715423 F9511HT SERVICE	$ 40.00	$ 25.10
97715424	97715424 F9011B F9011S F9011T SERVICE	$ 40.00	$ 25.10
97715424	97715424 F9011B F9011S F9011T SERVICE	$ 40.00	$ 25.10
97715432	97715432 M36 SERVICE MANUAL	$ 40.00	$ 25.10
97715433	97715433 F9511S SERVICE	$ 40.00	$ 25.10
97715434	97715434 F9020 SERVICE MANUAL F9021	$ 40.00	$ 25.10
97715439	97715439 F5021 SERVICE MANUAL	$ 40.00	$ 25.10
97715444	97715444 7600 SERVICE MANUAL 7600	$ 40.00	$ 25.10
97715445	97715445 80AD SERVICE MANUAL 80AD	$ 40.00	$ 25.10
97715446	97715446 880H SERVICE MANUAL ID880H ID880	$ 40.00	$ 25.10
97715456	97715456 SERVICE MXA5000	$ 40.00	$ 25.10
97715473	97715473 F6021 SERVICE MANUAL	$ 40.00	$ 25.10
97715490	97715490 F4011 SERVICE MANUAL	$ 40.00	$ 25.10
97715493	97715493 F3011 SERVICE MANUAL	$ 40.00	$ 25.10
97715502	97715502 F9521 SERVICE MANUAL	$ 40.00	$ 25.10
97715517	97715517 V80 SERVICE MANUAL V80	$ 40.00	$ 25.10
97715519	97715519 F3001 SERVICE MANUAL F3001	$ 40.00	$ 25.10
97715573	97715573 M412 SERVICE MANUAL M412	$ 40.00	$ 25.10
97715574	97715574 MA500TR SVC MANUAL MA500TR	$ 40.00	$ 25.10
97715592	97715592 F3101D SERVICE	$ 40.00	$ 25.10
97715595	97715595 F5011/F5012/F5013 SERVICE	$ 40.00	$ 25.10
97715598	97715598 7410 SERVICE MANUAL	$ 40.00	$ 25.10
97715607	97715607 F5121D SERVICE	$ 40.00	$ 25.10
97715608	97715608 F4101D SERVICE MANUAL	$ 40.00	$ 25.10
97715691	97715691 9100 SERVICE MANUAL	$ 40.00	$ 25.10
97715696	97715696 F6011 SERVICE MANUAL	$ 40.00	$ 25.10
97715710	97715710 F6121D SERVICE MAN F6121D	$ 40.00	$ 25.10
98812063	98812063 2100H OWNERS MAN	$ 12.00	$ 7.53
98812112	98812112 T22 T42A OWN MANUAL	$ 12.00	$ 7.53
98812119	98812119 W32A OWNERS MANUAL	$ 12.00	$ 7.53
98812129	98812129 AT130 OWNERS MANUAL	$ 12.00	$ 7.53
98812145	98812145 M700PRO OWNERS MANUAL	$ 12.00	$ 7.53
98812147	98812147 M710 OWN MAN GMDSS	$ 12.00	$ 7.53
98812158	98812158 F310 F320 OWNERS MAN F410 F420	$ 12.00	$ 7.53
98812186	98812186 A22 OWNERS MANUAL	$ 12.00	$ 7.53
98812187	98812187 A200 OWNERS MANUAL	$ 12.00	$ 7.53
98812188	98812188 OWN MAN A3	$ 12.00	$ 7.53
98812189	98812189 A4 OWNERS MANUAL	$ 12.00	$ 7.53
98812203	98812203 R8500 OWNERS MANUAL	$ 12.00	$ 7.53
98812456	98812456 F3 F3S F4 F4S O/M OWNERS MANUAL	$ 12.00	$ 7.53
98812541	98812541 AH4 OWNERS MANUAL	$ 12.00	$ 7.53
98812681	98812681 T7H OWNERS MANUAL	$ 12.00	$ 7.53

Model	Description	Retail	State Price
98812704	98812704 UT105 OWNERS MANUAL	$ 12.00	$ 7.53
98812867	98812867 706MK2G OWN MANUAL	$ 12.00	$ 7.53
98812934	98812934 R75 OWNERS MANUAL	$ 12.00	$ 7.53
98813058	98813058 T2H OWNERS MANUAL	$ 12.00	$ 7.53
98813163	98813163 UT111 OWNERS MANUAL	$ 12.00	$ 7.53
98813167	98813167 M1V OWNERS MANUAL	$ 12.00	$ 7.53
98813331	98813331 F4GS/GT OWNERS MANUAL F3GS F3GT	$ 12.00	$ 7.53
98813332	98813332 A110 OWNERS MANUAL	$ 12.00	$ 7.53
98813335	98813335 R3 OWNERS MANUAL	$ 12.00	$ 7.53
98813344	98813344 718 OWNERS MANUAL	$ 12.00	$ 7.53
98813421	98813421 78 OWNERS MANUAL	$ 12.00	$ 7.53
98813506	98813506 A23 A5 OWNERS MANUAL	$ 12.00	$ 7.53
98813509	98813509 F30GS/GT OWNERS MAN F40GS/GT	$ 12.00	$ 7.53
98813598	98813598 M502 OWNERS MANUAL	$ 12.00	$ 7.53
98813601	98813601 F4TR OWNERS MANUAL	$ 12.00	$ 7.53
98813689	98813689 OWNERS MANUAL 910H	$ 12.00	$ 7.53
98813692	98813692 OWNERS MANUAL M402 M402S	$ 12.00	$ 7.53
98813703	98813703 OWNERS MANUAL F21 F11 F21S F11S	$ 12.00	$ 7.53
98813793	98813793 OWNERS MANUAL V8	$ 12.00	$ 7.53
98813806	98813806 OWNERS MANUAL F21GM	$ 12.00	$ 7.53
98813807	98813807 OWNERS MANUAL F21BR	$ 12.00	$ 7.53
98814062	98814062 M2A OWNERS MANUAL	$ 12.00	$ 7.53
98814098	98814098 746PRO OWNERS MANUAL	$ 12.00	$ 7.53
98814186	98814186 V8000 OWNERS MANUAL	$ 12.00	$ 7.53
98814193	98814193 F520 OWN F620 OWN MAN F510 F610	$ 12.00	$ 7.53
98814198	98814198 M802 OWNERS MANUAL	$ 12.00	$ 7.53
98814502	98814502 T90A OWNERS MANUAL	$ 12.00	$ 7.53
98814517	98814517 2720H OWNERS MANUAL	$ 12.00	$ 7.53
98814534	98814534 R5 OWNERS MANUAL	$ 12.00	$ 7.53
98814612	98814612 M602 OWNERS MANUAL	$ 12.00	$ 7.53
98814613	98814613 M88 OWNERS MANUAL	$ 12.00	$ 7.53
98814698	98814698 FR4000 OWNERS MANUAL	$ 12.00	$ 7.53
98814699	98814699 F121 OWNERS MAN F221 F221 OWNERS MANUAL F111 F211	$ 12.00	$ 7.53
98814706	98814706 703 OWNERS MANUAL	$ 12.00	$ 7.53
98814722	98814722 4088A OWNERS MANUAL	$ 12.00	$ 7.53
98814731	98814731 F111S F121S OWN MAN F221S F211S OWNERS MANUAL	$ 12.00	$ 7.53
98814739	98814739 208H OWN MAN	$ 12.00	$ 7.53
98814785	98814785 ID1 OWN MAN	$ 12.00	$ 7.53
98814788	98814788 M32 OWN MAN	$ 12.00	$ 7.53
98814795	98814795 M302 OWN MAN	$ 12.00	$ 7.53
98814809	98814809 OWN MAN F50 F60	$ 12.00	$ 7.53
98814817	98814817 OWN MAN F43GT F43GS	$ 12.00	$ 7.53
98814848	98814848 OWN MANUAL 2200H	$ 12.00	$ 7.53
98814851	98814851 OWNERS MANUAL R20	$ 12.00	$ 7.53
98814852	98814852 OWNERS MANUAL 7800	$ 12.00	$ 7.53
98814873	98814873 OWNERS MAN FR3000	$ 12.00	$ 7.53
98814875	98814875 OWNER MANUAL M402A M402SA	$ 12.00	$ 7.53
98814877	98814877 OWNER MANUAL F1721 F1721D F1821 F1821D F2721/2821	$ 12.00	$ 7.53
98814878	98814878 756PRO3 756PROIII OWNERS MANUAL	$ 12.00	$ 7.53
98814910	98814910 OWNER MANUAL ID800H	$ 12.00	$ 7.53
98814911	98814911 OWNER MANUAL F70DT F70DS F70T F70S F80D F80T F80S	$ 12.00	$ 7.53
98814912	98814912 OWNER MANUAL V82 U82	$ 12.00	$ 7.53
98814945	98814945 A24 A6 OWNERS MANUAL	$ 12.00	$ 7.53
98814946	98814946 F14 F24 OWNER MANUAL	$ 12.00	$ 7.53
98814950	98814950 M422 OWNERS MANUAL	$ 12.00	$ 7.53
98814971	98814971 OWNERS MANUAL M502A	$ 12.00	$ 7.53
98815018	98815018 OWN MAN 7000	$ 12.00	$ 7.53
98815033	98815033 OWNER MANUAL M72	$ 12.00	$ 7.53
98815063	98815063 P7A OWNERS MANUAL	$ 12.00	$ 7.53
98815080	98815080 OWNERS MANUAL M504	$ 12.00	$ 7.53
98815083	98815083 OWNERS MANUAL F3161 F4161 F3061 F4061	$ 12.00	$ 7.53
98815155	98815155 USE 98815083 F4062 F4063	$ 12.00	$ 7.53
98815156	98815156 OWNERS MANUAL MR1000R MR1000T MR1000	$ 12.00	$ 7.53
98815157	98815157 OWNERS MANUAL 91A 91AD	$ 12.00	$ 7.53
98815159	98815159 OWNERS MANUAL IDRP2	$ 12.00	$ 7.53
98815160	98815160 OWNERS MANUAL GM1600	$ 12.00	$ 7.53
98815172	98815172 OWNERS MANUAL M90	$ 12.00	$ 7.53
98815178	98815178 OWNERS MANUAL R1500	$ 12.00	$ 7.53
98815179	98815179 OWNERS MANUAL R2500	$ 12.00	$ 7.53
98815180	98815180 OWNERS MANUAL F3021 F4021T/S	$ 12.00	$ 7.53
98815190	98815190 OWNER'S MANUAL M604	$ 12.00	$ 7.53
98815192	98815192 OWNERS MANUAL F43TR	$ 12.00	$ 7.53
98815214	98815214 OWNERS MANUAL F70 F80	$ 12.00	$ 7.53
98815224	98815224 OWNERS MANUAL M34	$ 12.00	$ 7.53
98815233	98815233 OWNERS MANUAL V85	$ 12.00	$ 7.53
98815250	98815250 OWNER'S MANUAL 2820H	$ 12.00	$ 7.53
98815253	98815253 OWNER'S MANUAL F5060 F5061	$ 12.00	$ 7.53
98815256	98815256 OWNER'S MANUAL R9500	$ 12.00	$ 7.53

Model	Description	Retail	State Price
98815260	98815260 OWNER'S MANUAL F6061 F6060	$ 12.00	$ 7.53
98815284	98815284 OWNERS MANUAL IDRP2000V IDRP4000V RP2000V	$ 12.00	$ 7.53
98815316	98815316 OWNER'S MANUAL A210	$ 12.00	$ 7.53
98815318	98815318 OWNER'S MANUAL F50V F60V	$ 12.00	$ 7.53
98815332	98815332 OWNER'S MANUAL 92AD	$ 12.00	$ 7.53
98815338	98815338 OWNER'S MANUAL A14	$ 12.00	$ 7.53
98815350	98815350 FR6000 OWNER MANUAL FR5000 OWNER MANUAL	$ 12.00	$ 7.53
98815353	98815353 OWNER'S MANUAL 7700	$ 12.00	$ 7.53
98815357	98815357 use 98815318	$ 12.00	$ 7.53
98815371	98815371 FR5000 INSTUCTION SEE 98815350	$ 12.00	$ 7.53
98815380	98815380 7200 OWNERS MANUAL	$ 12.00	$ 7.53
98815407	98815407 RX7 OPERATORS MANUAL	$ 12.00	$ 7.53
98815437	98815437 7600 OWNERS MANUAL	$ 12.00	$ 7.53
98815454	98815454 OWNERS MANUAL 80AD	$ 12.00	$ 7.53
98815455	98815455 OWNERS MANUAL ID880H ID880	$ 12.00	$ 7.53
98815457	98815456 OWNERS MXA5000	$ 12.00	$ 7.53
98815464	98815464 M36 OWNERS MANUAL	$ 12.00	$ 7.53
98815487	98815487 F9011 OWNERS MANUAL F9011	$ 12.00	$ 7.53
98815487	98815487 F9011 OWNERS MANUAL F9011	$ 12.00	$ 7.53
98815488	98815488 F9511 OWNERS MANUAL F9511	$ 12.00	$ 7.53
98815488	98815488 F9511 OWNERS MANUAL F9511	$ 12.00	$ 7.53
98815492	98815492 F4011 OWNERS MANUAL F4013 F3011 F3013	$ 12.00	$ 7.53
98815504	98815504 F9521 OWNERS MANUAL	$ 12.00	$ 7.53
98815506	98815506 F9021 OWNERS MANUAL	$ 12.00	$ 7.53
98815506	98815506 F9021 OWNERS MANUAL	$ 12.00	$ 7.53
98815508	98815508 F9511HT OWNER MANUAL	$ 12.00	$ 7.53
98815525	98815525 V80 OWNERS MANUAL	$ 12.00	$ 7.53
98815528	98815528 T70A OWNERS MANUAL	$ 12.00	$ 7.53
98815531	9881553 R6 OWNERS MANUAL	$ 12.00	$ 7.53
98815577	98815577 M412 OWNERS MANUAL M412	$ 12.00	$ 7.53
98815579	98815579 MA500TR OWNERS MA500TR	$ 12.00	$ 7.53
98815591	98815591 F3101D OWNER MANUAL F4101D	$ 12.00	$ 7.53
98815594	98815594 F5011 OWNERS MANUAL F6011	$ 12.00	$ 7.53
98815597	98815597 7410 OWNERS MANUAL	$ 12.00	$ 7.53
98815600	98815600 F3001 OWNERS MANUAL F4001	$ 12.00	$ 7.53
98815603	98815603 M24 OWNERS MANUAL	$ 12.00	$ 7.53
98815606	98815606 F5121D OWNERS MANUAL F6121D	$ 12.00	$ 7.53
98815638	98815638 F5021/6021 OWNERS F6021*	$ 12.00	$ 7.53
98815693	98815693 9100 OWNERS MANUAL	$ 12.00	$ 7.53
98816438	98816438 M504A OWNERS MANUAL M504A	$ 12.00	$ 7.53
98816439	98816439 M604A OWNERS MANUAL M604A	$ 12.00	$ 7.53
97715154U	97715154U SERVICE MAN UPDATE F4061 F4062 F4063 F4161	$ 40.00	$ 25.10
A200 TRAY	A200 TRAY Mounting Tray-A200	$ 65.00	$ 40.79
AD100	AD100 F50/M88 Adapter BC119N and BC121N	$ 27.00	$ 16.94
AD101	AD101 Li-Ion Charge Adapter BC119N 01 to Charge BP211	$ 28.00	$ 17.57
AD105	AD105 4088A Charger Adapter BC119N 01 to Charge BP202	$ 20.00	$ 12.55
AD106	AD106 Charger Adapter Cup BC121N BP232N F3021 F3161 F14	$ 28.00	$ 17.57
AD109	AD109 GM1600 Adapter BC119N 01 BC121N M90	$ 18.00	$ 11.30
AD110	AD110 F70/F80 Adapter BC119N and BC121N	$ 28.00	$ 17.57
AD113A	AD113A *NLA - Use AD113S* PCR1500/2500 AC Adapter	$ 35.00	$ 21.96
AD113E	AD113E PCR1500/2500 220V Adptr	$ 35.00	$ 21.96
AD113SA 32	AD113SA 32 *NLA - Use AD113S* PCR1500/2500 AC Adapter	$ 35.00	$ 21.96
AD114	AD114 M72 Adapter to BC119N 01	$ 28.00	$ 17.57
AD119 11	AD119 11 F8100 21 Junction Box	$ 1,250.00	$ 784.38
AD120	AD120 Adapter Cup for BP264	$ 23.00	$ 14.43
AD121	AD121 Adapter Cup for BP265	$ 23.00	$ 14.43
AD122	AD122 Adapter Cup for BP232N	$ 23.00	$ 14.43
AD123 02	AD123 02 M24 Rapid Chgr Adpter	$ 23.00	$ 14.43
AD52	AD52 F3161/F4161/F30G Earphone Adapter	$ 25.00	$ 15.69
AD55S 12	AD55S 12 R8500 Adapter-110V	$ 64.00	$ 40.16
AD55S 13	AD55S 13 R8500 Adapter-220V	$ 64.00	$ 40.16
AD55S 22	AD55S 22 R8500 Adapter-110V	$ 64.00	$ 40.16
AD67	AD67 Adapter for BC119 01	$ 10.50	$ 6.59
AD87	AD87 T8A Charger Adapter	$ 11.00	$ 6.90
AD89	AD89 4008A Adapter to BC119	$ 19.00	$ 11.92
AD92SMA	AD92SMA SMA-BNC Conn for R2	$ 20.00	$ 12.55
AD94 11	AD94 11 F21/S Adapter to BC119 Includes AD99	$ 28.00	$ 17.57
AD98FSC	AD98FSC Ant Connector Adapter For "J" to "BNC" Conversion	$ 22.00	$ 13.81
AD99N	AD99N F21 Adapter to BC146 BC121	$ 6.40	$ 4.02
AES UPGRADE MOBILE	AES UPGRADE MOBILE P25 Frmware Upgrade	$ 656.00	$ 411.64
AES UPGRADE PORTABLE	AES UPGRADE PORTABLE P25 Firm ware Upgrade	$ 656.00	$ 411.64
AG25	AG25 910H Preamplifier	$ 255.00	$ 160.01
AH2B	AH2B Antenna Element/Base	$ 599.00	$ 375.87
AH4 12	AH4 12 Automatic Antenna Tuner	$ 380.00	$ 299.25
AH703	AH703 HF Antenna for IC-703	$ 390.00	$ 244.73
AH710	AH710 Folded Dipole 707/M710 77, M700PRO	$ 430.00	$ 269.83
AH8000	AH8000 Discone Antenna Wideband RX TX 100-3300MHz	$ 340.00	$ 213.35
ANTENNA 4	ANTENNA 4 152-162MHz 3dB Gain Mountable Gray 1/4 Wave 21.6"	$ 20.00	$ 12.55

Model	Description	Retail	State Price
ASAP FR6000 UNIVERSAL PL	ASAP FR6000 UNIVERSAL PLATE Internal Univ Accy Mounting Pl	$ 26.00	$ 16.32
ASAP REPEATER CONTROL BOX	ASAP REPEATER CONTROL BOX 18ga Clrl Powdercoated incl Faceplt	$ 64.00	$ 40.16
AT130	AT130 Auto Antenna Tuner M710	$ 690.00	$ 432.98
AT140	AT140 Auto Antenna Tuner M802	$ 710.00	$ 445.53
AT180	AT180 706 7000 Tuner	$ 599.00	$ 471.71
BC119N 01	BC119N 01 Rapid Chrgr 117V	$ 75.00	$ 47.06
BC119N 02	BC119N 02 Rapid Chrgr 230V	$ 76.00	$ 47.69
BC119N 51	BC119N 51 F50/F60/M88 Rapid Charger	$ 99.00	$ 62.12
BC119N 61	BC119N 61 F70/F80 Rapid Chargr F9011	$ 95.00	$ 59.61
BC121N	BC121N 6 Unit Multi-Charger	$ 305.00	$ 191.39
BC121N A24	BC121N A24 6-Unit Charger Kit BC121N + BC157 + AD101 x 6	$ 593.00	$ 372.11
BC121N AD106 220V KIT	BC121N AD106 220V KIT Gang Chg BC121N + BC157 04 + AD106 x 6	$ 593.00	$ 372.11
BC121N AD106 KIT	BC121N AD106 KIT Gang Charger BC121N + BC157S 07 + AD106 x 6	$ 593.00	$ 372.11
BC121N F11	BC121N F11 6-Unit Charger Kit BC121N + BC157 + AD94 11 x 6	$ 593.00	$ 372.11
BC121N F50	BC121N F50 6-Unit Charger Kit BC121N + BC157 + AD100 x 6	$ 587.00	$ 368.34
BC121N F50 220V	BC121N F50 220V 6-Unit Chrgr BC121N + BC157S 09 + AD100 x 6	$ 593.00	$ 372.11
BC121N F70	BC121N F70 6-Unit Charger Kit BC121N + BC157 + AD110 x 6	$ 593.00	$ 372.11
BC121N F70 220V	BC121N F70 220V 6-Unit Chrgr BC121N + BC157S 09 + AD110 x 6	$ 593.00	$ 372.11
BC122A	BC122A AC Adptr-Trickle Chrgr F3/F4/S/G/F11/F21/M1	$ 16.00	$ 10.04
BC123SA 51	BC123SA 51 AC Adapter 110V BC191 BC193	$ 25.00	$ 15.69
BC123SE 52	BC123SE 52 AC Adapter 220V BC191 BC193	$ 27.00	$ 16.94
BC123SE 52	BC123SE 52 AC Adapter 220V BC191 BC193	$ 27.00	$ 16.94
BC133	BC133 Drop-In Trickle Charger F3/F3S/F4/F4S/T2H/A4	$ 40.00	$ 25.10
BC135 12	BC135 12 BP206 Rapid Chrgr R3 117V	$ 98.00	$ 61.50
BC136A	BC136A R3 Slow Chrger 500mAh BP206	$ 26.00	$ 16.32
BC139 02	BC139 02 Desktop Rapid Charger for BP217	$ 122.00	$ 76.56
BC144N 51	BC144N 51 F3G/F21/F30G Rapid Charger 117V	$ 66.00	$ 41.42
BC144N 52	BC144N 52 F3G/F21/F30G Rapid Charger 230V	$ 75.00	$ 47.06
BC145LA	BC145LA P7A Wall Charger	$ 18.00	$ 11.30
BC145SA 31	BC145SA 31 BC143/44 AC Adapter 117V	$ 25.00	$ 15.69
BC145SE 32	BC145SE 32 BC143/44 AC Adapter 230V	$ 25.00	$ 15.69
BC146 01	BC146 F21 Trickle Charger Base	$ 32.00	$ 20.08
BC147SA 14	BC147SA 14 BC146 AC Adapter	$ 15.00	$ 9.41
BC147SE 15	BC147SE 15 AC Adapter to BC146 220V - replaces BC147E 12	$ 16.00	$ 10.04
BC147SE SUBSTITUTION	Pull BC147SA replace w/BC147SE	$ 1.00	$ 0.63
BC149A 02	BC149A 02 R5 Trickle Charger	$ 50.00	$ 31.38
BC149D 03	BC149D 03 R5 220V Version R5 Trickle Charger	$ 50.00	$ 31.38
BC150 01	BC150 01 M2A Desktop Trickle Charger	$ 15.00	$ 9.41
BC152N 11	BC152N 11 F50/F60/M88 Desktop Trickle Charger/Improved LED	$ 42.00	$ 26.36
BC153SA 52	BC153SA 52 Slow Charger 1000mAh R3 BP206	$ 39.00	$ 24.47
BC156 02	BC156 02 R20 Desktop Rapid Charger	$ 110.00	$ 69.03
BC157S 07	BC157S 07 AC Adapter to BC121N *Replaces BC157 02	$ 120.00	$ 75.30
BC157S 09	BC157S 09 BC121N 220V Pwr Sply	$ 126.00	$ 79.07
BC158 01	BC158 01 GM1600 Desktop Trickl Charger M90	$ 18.00	$ 11.30
BC160 01	BC160 01 BP230/231/232 Rapid Charger 117V F43G/TR F14/24	$ 69.00	$ 43.30
BC160 02	BC160 02 BP230/231/232 Rapid Charger 230V F43G/TR F14/24	$ 70.00	$ 43.93
BC162 01	BC162 01 Desktop Rapid Charger For M34 01 includes BC145SA 31	$ 57.00	$ 35.77
BC166 01	BC166 01 Drop-In Trickle Charger M72 Desktop	$ 34.00	$ 21.34
BC167ND	BC167ND 91A Wall Charger 220V T70A 80AD 92AD	$ 40.00	$ 25.10
BC167ND SUBSTITUTION	Remove BC167SA, add BC167ND	$ 5.00	$ 3.14
BC167SA	BC167SA 80AD Wall Charger 117V	$ 35.00	$ 21.96
BC171 01	BC171 01 Drop-In Trickle Chrgr F14/F33/F3021/F3061 series	$ 47.00	$ 29.49
BC171 02	BC171 02 220V Trickle Charger F14/F33/F3021/F3061 series	$ 45.00	$ 28.24
BC173 01	BC173 01 M36 Desktop Trickle Charger M34	$ 21.00	$ 13.18
BC177 02	BC177 02 92AD Rapid Charger Desktop	$ 90.00	$ 56.48
BC179 01	BC179 01 A14/A14S Charging Adapter w/ BC147SA	$ 46.00	$ 28.87
BC179 02	BC179 02 A14/A14S Charging Adapter w/ BC174E	$ 46.00	$ 28.87
BC190 01	BC190 01 F50V Sensor Charger	$ 80.00	$ 50.20
BC191 12	BC191 12 Rapid Charger NiMH BP264	$ 72.00	$ 45.18
BC191 13	BC191 13 EUR Rapid Chrger NiMH BP264	$ 72.00	$ 45.18
BC192 12	BC192 12 Trickle Charger NiMH BP264	$ 36.00	$ 22.59
BC193 12	BC193 12 Rapid Charger LiIon BP265	$ 72.00	$ 45.18
BC193 13	BC193 13 220V Rpd Chrgr LiIon BP265	$ 68.00	$ 42.67
BC194 02	BC194 02 Drop-in Charger R6	$ 39.00	$ 24.47
BC196SA	BC196SA R6 AC Adapter BC194	$ 35.00	$ 21.96
BC196SD	BC196SD R6 AC Adapter BC194 220V	$ 35.00	$ 21.96
BC197 02	BC197 02 6-Unit Charger BP264 F3001 F4001 F3003 F4003 DTC	$ 510.00	$ 320.03
BC197 03	BC197 03 6-Unit BC BP264 220V F3001 F4001 F3003 F4003 DTC	$ 510.00	$ 320.03
BC197 12	BC197 12 6-Unit Charger BP265 F3001 F4001 F3003 F4003 RC LI	$ 510.00	$ 320.03
BC197 13	BC197 13 6-Unit BC BP265 220V F3001 F4001 F3003 F4003 RC LI	$ 510.00	$ 320.03
BC197 22	BC197 22 110V 6-Unit Charger BP232N BC157S 07 AD122	$ 510.00	$ 320.03
BC197 23	BC197 23 6-Unit Charger BP232N BC157S 09 220V	$ 510.00	$ 320.03
BC199SA 12	BC199SA 12 AC Adapter 120V M24 Wall Charger	$ 15.00	$ 9.41
BC202 02	BC202 02 110V Rapid Dsktp Chgr ID31A 05	$ 70.00	$ 43.93
BC204 12	BC204 12 Regular Charger M92D	$ 65.00	$ 40.79
BC204 12	BC204 12 Regular Charger M92D	$ 65.00	$ 40.79
BC205 12	BC205 12 Rapid Charger M92D	$ 90.00	$ 56.48
BC205 12	BC205 12 Rapid Charger M92D	$ 90.00	$ 56.48

Model	Description	Retail	State Price
BON CS4.5	BON CS4.5 PCR1500/2500 Softwre	$ 85.00	$ 53.34
BP170	BP170 T22A/W32A Alkaline Case	$ 40.00	$ 25.10
BP200L	BP200L 9.6V 760mAh-A23/A5/T81A	$ 130.00	$ 81.58
BP206	BP206 R3/R20 Li-Ion 3.7V 1650 Standard Battery Pack	$ 71.00	$ 44.55
BP208N	BP208N F11/F21 Alkaline Case F3G/F30G F4G/F40G A6 A24	$ 22.00	$ 13.81
BP210N	BP210N F3G/F30G NiMH 1650mAh F4G/F40G	$ 75.00	$ 47.06
BP210N FM	BP210N FM IS NiMH BP 1650mAh F30G/F40G	$ 131.00	$ 82.20
BP215N	BP215N M1V 7.4V 1900mAh Li-Ion	$ 102.00	$ 64.01
BP216	BP216 T90A Battery Case AA x 2	$ 48.00	$ 30.12
BP217	BP217 Li-Ion 7.4V 1300 T90A 91A 91AD	$ 125.00	$ 78.44
BP222N	BP222N F21 7.2V 600mAh NiCd	$ 45.00	$ 28.24
BP223	BP223 M32 Alkaline Case 6 AA M2A M90	$ 20.00	$ 12.55
BP224	BP224 M32 7.2V 750mAh NiCd M2A M90	$ 63.00	$ 39.53
BP226	BP226 Alkaline Case 5 AA M88 F50 F60	$ 50.00	$ 31.38
BP226 SUBSTITUTION	Pull stock battery, sub BP226	$ (60.00)	$ (37.65)
BP227	BP227 7.2V 1700mAh LiIon M88 F50 F60	$ 110.00	$ 69.03
BP227FM	BP227FM 7.2V 1700mAh LiIon IS M88 F50 F60	$ 126.00	$ 79.07
BP232H	BP232H 7.2V 2300mAh LiIon BP F14 F33 F3061 F4TR	$ 75.00	$ 47.06
BP232H SUBSTITUTION	Pull BP232N, sub with BP232H	$ 10.00	$ 6.28
BP232N FM	BP232N FM 7.2V 2000mAh LiIon IS Approved	$ 145.00	$ 90.99
BP232WP	BP232WP 7.2V 2250mAh LiIon BP F3031 F4031	$ 75.00	$ 47.06
BP234	BP234 GM1600 9.0V 3300mAh Lithium Battery Pack	$ 218.00	$ 136.80
BP237	BP237 F70/F80 Battery Case 6-AA batteries	$ 39.00	$ 24.47
BP237 SUBSTITUTION	Pull stock battery, sub BP237	$ (71.00)	$ (44.55)
BP240	BP240 Alkaline Battery Case 6-AAA for F33G/F43G Series	$ 35.00	$ 21.96
BP240 SUBSTITUTION	Pull Stnd Bat, sub with BP240	$ (31.00)	$ (19.45)
BP244	BP244 Li-Ion 3.7V 1100mAh RX7	$ 46.00	$ 28.87
BP245N	BP245N M72 7.4V 2000mAh Li-Ion	$ 90.00	$ 56.48
BP251	BP251 Alkaline Case 5 AAA M34	$ 35.00	$ 21.96
BP252	BP252 M34 7.4V 980mAh Li-Ion	$ 68.00	$ 42.67
BP253	BP253 1650mAh F70/F80 LiIon 1650mAh Battery	$ 100.00	$ 62.75
BP254	BP254 F70/F80 LiIon Battery 3040mAh	$ 155.00	$ 97.26
BP254 UPGRADE	Pull stock battery, sub BP254	$ 55.00	$ 34.51
BP254FM	BP254FM IS F70 LiIon Battery 3040mAh F70 F80	$ 183.00	$ 114.83
BP256	BP256 Li-Ion 7.4V 1500mAh 92AD	$ 115.00	$ 72.16
BP257	BP257 92AD Battery Case AA x 2	$ 48.00	$ 30.12
BP261	BP261 Battery Case A14 A14S AA X 6	$ 73.00	$ 45.81
BP263	BP263 AA Battery Case F3001 F4001	$ 30.00	$ 18.83
BP264	BP264 1400mAh NiMH F3001/F4001	$ 43.00	$ 26.98
BP265	BP265 1900mAh LiIon F3001 F4001 T70 V80	$ 62.00	$ 38.91
BP266	BP266 M24 1500mAh Li-Ion	$ 60.00	$ 37.65
BP271	7.4V 1150mAh Li-Ion Battery ID31A 05	$ 99.00	$ 62.12
BP272	7.4V 1880mAh Li-Ion Battery ID31A 05	$ 139.00	$ 87.22
BP273	AA Alkaline Battery Tray AAx3 ID31A 05	$ 68.00	$ 42.67
BP275	BP275 M92D 1500mAh	$ 110.00	$ 69.03
BP275	BP275 M92D 1500mAh	$ 110.00	$ 69.03
CEN EXD 380 MXI UPGRADE	Pull std, sub CEN EXD 380 MXI	$ 1.50	$ 0.94
CFFR5000 02	CFFR5000 02 IP Repeater Link Card	$ 65.00	$ 40.79
CFFR5000MT	CFFR5000MT IDAS Multi-Site Trunking Board	$ 1,375.00	$ 862.81
CM167	CM167 Battery Case-A3/A22	$ 40.00	$ 25.10
CM176	CM176 Lithium 12V 3600mAh GM1500	$ 228.00	$ 143.07
CP1	CP1 Cig Lighter Plug/Cord	$ 28.00	$ 17.57
CP12	CP12 Cig Lighter Plug/Cord	$ 40.00	$ 25.10
CP12L	CP12L Cig Lighter Plug/Cord	$ 43.00	$ 26.98
CP17L	CP17L Cig Lghtr Cble-A3/A22	$ 30.00	$ 18.83
CP18A	CP18A R3 Cig Lighter Cable 12V	$ 40.00	$ 25.10
CP19R	CP19R T90A Cig Lighter Cable	$ 52.00	$ 32.63
CP20	CP20 Cig Lighter Cable-A6/A24 With Noise Filter	$ 61.00	$ 38.28
CP21LR	CP21LR *CALL R&L 800-221-7735* **NO LONGER AVAILABLE**	$ 62.00	$ 38.91
CP22	CP22 Cig Lighter Cable A14/S Powering BC179	$ 69.00	$ 43.30
CP24	CP24 Cig Lighter Cable M24	$ 28.00	$ 17.57
CP25	CP25 Cig Lighter Cable M92D	$ 27.00	$ 16.94
CP25	CP25 Cig Lighter Cable M92D	$ 27.00	$ 16.94
CR282	CR282 High Stblty XTAL-775DSP	$ 230.00	$ 144.33
CR293	CR293 High Stblty Xtal-910H R8500	$ 420.00	$ 263.55
CR338	CR338 TCXO 718/78/746PRO 707 77 746	$ 105.00	$ 65.89
CS208	CS208 208H Cloning Software	$ 40.00	$ 25.10
CS2200H	CS2200H Windows Cloning Sftwre	$ 62.00	$ 38.91
CS2300H	CS2300H 2300H Program Software	$ 85.00	$ 53.34
CS2720	CS2720 2720H Cloning Software	$ 45.00	$ 28.24
CS2820	CS2820 2820H Cloning Software	$ 45.00	$ 28.24
CS9100	CS9100 9100 Cloning Software	$ 60.00	$ 37.65
CSA110	A110 24/25/EURO Cloning Sftwre Will not program A110 04/05	$ 53.00	$ 33.26
CSA14	CSA14 A14/S Cloning Software	$ 77.00	$ 48.32
CSA210	CSA210 A210 Cloning Software	$ 66.00	$ 41.42
CSA23	CSA23 A23 Cloning Software	$ 61.00	$ 38.28
CSA24	CSA24 02 A24 20/A6 30 Cln Sftw Will not program A24 15/ A6 21	$ 65.00	$ 40.79
CSA24 01	CSA24 01 A24 15/A6 21 Cln Sftw Will not program A24 20/ A6 30	$ 65.00	$ 40.79

Model	Description	Retail	State Price
CSD800	CSD800 ID800H Prog. Software	$ 55.00	$ 34.51
CSF100	CSF100 Programming Software F121 F221	$ 75.00	$ 47.06
CSF1000	CSF1000 New CPU F1020/F2020 Programming Software	$ 40.00	$ 25.10
CSF100S	CSF100S Programming Software F121S F221S	$ 75.00	$ 47.06
CSF11	CSF11 F11/F21 Program Sftwre	$ 72.00	$ 45.18
CSF14	CSF14 F14/F24 Program Sftwre w/ MDC	$ 75.00	$ 47.06
CSF3	CSF3 F3/S/F4/S Program Sftwre	$ 40.00	$ 25.10
CSF300	CSF300 F320/F420 Prg Sftwre	$ 40.00	$ 25.10
CSF3001	CSF3001 Program Software F3001 F4001	$ 72.00	$ 45.18
CSF300S	CSF300S F320S/F420S Prg Sftwre	$ 40.00	$ 25.10
CSF3011	CSF3011 Program Software F3011 F4011	$ 75.00	$ 47.06
CSF3021/F5021/F5011	CSF3021/F5021/F5011 Program Software	$ 72.00	$ 45.18
CSF30G	CSF30G F30G/F40G Prg Software	$ 72.00	$ 45.18
CSF3101D/F5121D	CSF3101D/F5121D Program Sftwre	$ 72.00	$ 45.18
CSF3161/F5061	CSF3161/F5061 Program Software F3161 F5061	$ 72.00	$ 45.18
CSF33G	CSF33G F33G/F43G Prg Software	$ 72.00	$ 45.18
CSF3G	CSF3G F3GS/T Program Sftwre	$ 72.00	$ 45.18
CSF43TR	CSF43TR F43TR Program Software	$ 72.00	$ 45.18
CSF4TR	CSF4TR Version 1.6.1	$ 80.00	$ 50.20
CSF50	CSF50 F50/F60 Program Software	$ 75.00	$ 47.06
CSF500	CSF500 F520/F620 Prog. Sftwre	$ 72.00	$ 45.18
CSF50V	CSF50V F50V Program Software	$ 72.00	$ 45.18
CSF620TR	CSF620TR LTR Programming Sftwr	$ 72.00	$ 45.18
CSF70/F1700	CSF70/F1700 Cloning Softwre F70/F80/F1721/F1821/F2721/F282	$ 72.00	$ 45.18
CSF9010/F9510	CSF9010/F9510 Cloning Softawre F9011 F9511	$ 72.00	$ 45.18
CSFR3000	CSFR3000 FR3000 Program Sftwre	$ 72.00	$ 45.18
CSFR5000	CSFR5000 FR5000 Program Sftwre FR6000	$ 72.00	$ 45.18
CSGM1600	CSGM1600 Program Sftwre GM1600	$ 65.00	$ 40.79
CSM1V	CSM1V M1V Program Software	$ 62.00	$ 38.91
CSM24	CSM24 M24 Programming Software	$ 72.00	$ 45.18
CSM2A	CSM2A M2A Program Software	$ 62.00	$ 38.91
CSM302	CSM302 M302 Programming Sftwre	$ 59.00	$ 37.02
CSM32	CSM32 M32 Programming Software	$ 62.00	$ 38.91
CSM36	CSM36 M36 Programming Software	$ 79.00	$ 49.57
CSM402	CSM402 M402 Program Software	$ 71.00	$ 44.55
CSM402A	CSM402A M402A Program Software	$ 75.00	$ 47.06
CSM412	CSM412 M412 Program Software	$ 72.00	$ 45.18
CSM422	CSM422 M422 Program Software	$ 79.00	$ 49.57
CSM502	CSM502 M502 Program Software	$ 71.00	$ 44.55
CSM502A	CSM502A M502A Program Software	$ 71.00	$ 44.55
CSM504	CSM504 M504 Program Software	$ 79.00	$ 49.57
CSM602	CSM602 M602 Program Software	$ 59.00	$ 37.02
CSM604A	CSM604A M604A Program Software	$ 82.00	$ 51.46
CSM72	CSM72 M72 Programming Software	$ 65.00	$ 40.79
CSM802	CSM802 M802 Program Software	$ 79.00	$ 49.57
CSM88	CSM88 M88 Program Software	$ 66.00	$ 41.42
CSM90	CSM90 M90 Program Software	$ 59.00	$ 37.02
CSM92D/M424	CSM92D/M424 M92D M424 Program Software	$ 90.00	$ 56.48
CSM92D/M424	CSM92D/M424 M92D M424 Program Software	$ 90.00	$ 56.48
CSR20	CSR20 R20 Cloning Software	$ 66.00	$ 41.42
CSR3	CSR3 R3 Cloning Software	$ 26.00	$ 16.32
CSR5	CSR5 R5 Cloning Software	$ 50.00	$ 31.38
CSR6	CSR6 R6 Software	$ 58.00	$ 36.40
CSRMK4	CSRMK4 RMK4 Programming Sftwre	$ 80.00	$ 50.20
CSRX7	CSRX7 **NO LONGER AVAILABLE** RX7 Cloning Software	$ 65.00	$ 40.79
CST70	CST70 T70A Software *Disk Only	$ 50.00	$ 31.38
CST90A	CST90A T90A Cloning Software	$ 42.00	$ 26.36
CSV8	CSV8 V8 Cloning Software	$ 42.00	$ 26.36
CSV80	CSV80 V80 Software *Disk Only*	$ 60.00	$ 37.65
CSV8000	CSV8000 V8000 Cloning Software	$ 42.00	$ 26.36
CSV82	CSV82 V82 Cloning Software	$ 46.00	$ 28.87
CSW32	CSW32 W32A Cloning Software	$ 14.00	$ 8.79
CT17	CT17 Level Converter	$ 190.00	$ 119.23
CT23 01	CT23 01 PTT Microphone Adapter	$ 120.00	$ 75.30
CY5000 DUP KIT 140-145	CY5000 DUP KIT 150-159 Duplexor Installation Kit CY50	$ 608.33	$ 381.73
CY5000 DUP KIT 150-153	CY5000 DUP KIT 150-159 Duplexor Installation Kit CY50	$ 608.33	$ 381.73
CY5000 DUP KIT 150-155	CY5000 DUP KIT 150-159 Duplexor Installation Kit CY50	$ 608.33	$ 381.73
CY5000 DUP KIT 152-155	CY5000 DUP KIT 150-159 Duplexor Installation Kit CY50	$ 608.33	$ 381.73
CY5000 DUP KIT 160-165	CY5000 DUP KIT 150-159 Duplexor Installation Kit CY50	$ 608.33	$ 381.73
CY5000 DUP KIT 165-168	CY5000 DUP KIT 150-159 Duplexor Installation Kit CY50	$ 608.33	$ 381.73
CY6000 DUP KIT 400-405	CY6000 DUP KIT 400-405 Duplexor Installation Kit CY60	$ 608.33	$ 381.73
CY6000 DUP KIT 400-405	CY6000 DUP KIT 400-405 Duplexor Installation Kit CY60	$ 608.33	$ 381.73
CY6000 DUP KIT 415-420	CY6000 DUP KIT 400-405 Duplexor Installation Kit CY60	$ 608.33	$ 381.73
CY6000 DUP KIT 440-445	CY6000 DUP KIT 440-445 Duplexor Installation Kit CY60	$ 608.33	$ 381.73
CY6000 DUP KIT 450-455	CY6000 DUP KIT 450-455 Duplexor Installation Kit CY60	$ 608.33	$ 381.73
CY6000 DUP KIT 457-462	CY6000 DUP KIT 457-462 Duplexor Installation Kit CY60	$ 608.33	$ 381.73
CY6000 DUP KIT 460-465	CY6000 DUP KIT 460-465 Duplexor Installation Kit CY60	$ 608.33	$ 381.73
DAN PROGRAMMING KIT	DAN PROGRAMMING KIT	$ 684.24	$ 429.36

Model	Description	Retail	State Price
DES UPGRADE MOBILE	DES UPGRADE MOBILE P25 Frmware Upgrade	$ 551.00	$ 345.75
DES UPGRADE PORTABLE	DES UPGRADE PORTABLE P25 Firm ware Upgrade	$ 551.00	$ 345.75
EM80	EM80 F30G Full Size Speakr Mic	$ 15.00	$ 9.41
EMDC UPGRADE	EMDC UPGRADE Enhanced MDC Firmware Upgrade	$ 15.00	$ 9.41
EMDC UPGRADE	EMDC UPGRADE Enhanced MDC Firmware Upgrade	$ 15.00	$ 9.41
EX1961 2.2	EX1961 2.2 F3/F4 Prgm Sftwre	$ 40.00	$ 25.10
EX208 6	EX208 6 120MHz ANT A2 A20 A21 SPECIAL ORDER ITEM	$ 21.00	$ 13.18
EX2785J01	EX2785J01 P25 activation sftwr upgrade non-P25 radio to P25	$ 882.00	$ 553.46
EX2785J02	EX2785J02 DES activation sftwr upgrade P25 radio to DES	$ 551.00	$ 345.75
EX2785J03	EX2785J03 AES activation sftwr upgrade P25 radio to AES	$ 656.00	$ 411.64
F121 MMB	F121 MMB MTG BRKT F121/F5021 F121/S/F221/S/F5021/F6021	$ 10.00	$ 6.28
F1721 MMB	F1721 MMB MTG BRKT F1721/F1821	$ 10.00	$ 6.28
F320 MMB	F320 MMB MTG BRKT F320/F420 F520/F521/F620/F621/2100H	$ 10.00	$ 6.28
F5061 IGN SENSE CABLE	F5061 IGN SENSE CABLE 96" Cable With 3A Fuse	$ 15.00	$ 9.41
F5061 MMB	F5061 MMB MTG BRKT F5061/F6061	$ 10.00	$ 6.28
FA1443B	FA1443B ANT W2A 32AT W31A T7A W32A	$ 35.00	$ 21.96
FAB02AR	FAB02AR Std Antenna A14 A24 A6 A23 A4 A5	$ 37.00	$ 23.22
FAB04RE	FAB04RE R3/R20 Antenna *FAB03RE	$ 32.00	$ 20.08
FAB2E	FAB2E V8 Standard Flex Antenna V82	$ 35.00	$ 21.96
FAB70C	FAB70C U82 Antenna 430-450MHz	$ 32.00	$ 20.08
FAS24V	FAS24V 136-150MHz Antenna For F50/M88 (Blue ring)	$ 12.50	$ 7.84
FAS24V SUBSTITUTION	Pull std antenna, sub FAS24V	$ -	$ -
FAS25V	FAS25V 136-148 MHz F9011 Ant	$ 10.00	$ 6.28
FAS270C	FAS270C Q7A/R2 Std. Antenna R5 R6 92AD 91A 91AD	$ 35.00	$ 21.96
FAS27U	FAS27U 400-470MHz Antenna For F60 (Green ring)	$ 13.00	$ 8.16
FAS54V	FAS54V Flexible Antenna-M15	$ 22.00	$ 13.81
FAS55V	FAS55V Flexible Antenna-GM1500	$ 24.00	$ 15.06
FAS56U	FAS56U 450-520MHz Antenna For F60 (Red ring)	$ 13.00	$ 8.16
FAS57US	FAS57US F60 Stubby Antenna 450-490MHz (Red)	$ 16.00	$ 10.04
FAS57US UPGRADE	Pull std antenna, sub FAS57US	$ 3.00	$ 1.88
FAS58U	FAS58U 430-470 MHz Flexible Antenna	$ 16.00	$ 10.04
FAS59V	FAS59V 150-174MHz Antenna For F50/M88 (Red ring)	$ 13.00	$ 8.16
FAS61V	FAS61V Antenna GM1600	$ 12.00	$ 7.53
FAS6270D	FAS6270D T90A Flexible Antenna 3310002950	$ 35.00	$ 21.96
FAS62VS	FAS62VS F50/M88 Stubby Antenna 150-162MHz (Red)	$ 16.00	$ 10.04
FAS62VS UPGRADE	Pull std antenna, sub FAS62VS	$ 3.00	$ 1.88
FAS63VS	FAS63VS F50/M88 Stubby Antenna 160-174MHz (Green)	$ 16.00	$ 10.04
FAS63VS UPGRADE	Pull std antenna, sub FAS63VS	$ 3.00	$ 1.88
FAS64V	FAS64V M72 Short Antenna	$ 15.00	$ 9.41
FAS65V	FAS65V 148-160 MHz F9011 Ant	$ 17.00	$ 10.67
FAS66V	160-174 MHz flexible antenna	$ 17.00	$ 10.67
FAS67VC	FAS67VC 136-174MHz Cut Type Antenna	$ 30.00	$ 18.83
FAS74U	FAS74U 490-520MHz Antenna For F60 (Blue ring)	$ 12.50	$ 7.84
FAS74U UPGRADE	Pull std antenna, sub FAS74U	$ -	$ -
FASC03U	FASC03U 380-430MHz Antenna F43GS 86	$ 12.00	$ 7.53
FASC04U	FASC04U 330-380MHz Antenna F80DS 31 F80DT 35	$ 12.00	$ 7.53
FASC24V	FASC24V ***NLA Use FASC25V*** 136-150MHz F30LT & F3S	$ 13.00	$ 8.16
FASC24V UPGRADE	Pull std antenna, sub FASC24V	$ -	$ -
FASC25U	FASC25U F4G/F40G 400-430MHz Standard Antenna	$ 13.00	$ 8.16
FASC25U SUBSTITUTION	Pull std antenna, sub FASC25U	$ -	$ -
FASC25V	FASC25V F3G/F30G 136-150MHz Standard Antenna	$ 13.00	$ 8.16
FASC25V SUBSTITUTION	Pull std antenna, sub FASC25V	$ -	$ -
FASC55V	FASC55V F3G/F30G/M2A/F11/S M32 146-174MHz Standard Antenna	$ 13.00	$ 8.16
FASC56VS	FASC56VS Stubby 150-160MHz "F" Series 150-160MHz	$ 14.50	$ 9.10
FASC56VS UPGRADE	Pull std antenna, sub FASC56VS	$ 2.00	$ 1.26
FASC57U	FASC57U F4G/F40G/F21/S 440-470 Standard Antenna	$ 13.00	$ 8.16
FASC57VS	FASC57VS Stubby 160-174MHz "F" Series 160-174MHz	$ 14.50	$ 9.10
FASC57VS UPGRADE	Pull std antenna, sub FASC57VS	$ 2.00	$ 1.26
FASC58V	FASC58V Antenna M34 M24 FASC58V Antenna	$ 11.00	$ 6.90
FASC59V	FASC59V Antenna M92D	$ 18.00	$ 11.30
FASC59V	FASC59V Antenna M92D	$ 18.00	$ 11.30
FASC61UC	FASC61UC 380-520MHz Cut Ant.	$ 16.00	$ 10.04
FASC61UC UPGRADE	Pull std antenna, sub FASC61UC	$ 3.00	$ 1.88
FASC61VC	FASC61VC 136-174MHz Cut Ant.	$ 16.00	$ 10.04
FASC61VC UPGRADE	Pull std antenna, sub FASC61VC	$ 3.00	$ 1.88
FASC62V	FASC62V 150-160 High Gain Ant F3001/F3011/F3021/F3161/F3261	$ 55.00	$ 34.51
FASC63V	FASC63V 155-165 High Gain Ant F3001/F3011/F3021/F3161/F3261	$ 55.00	$ 34.51
FASC72U	FASC72U F4G/F40G 470-512MHz Standard Antenna	$ 13.00	$ 8.16
FASC72U SUBSTITUTION	Pull std antenna, sub FASC72U	$ -	$ -
FASC73US	FASC73US Stubby Antenna for "F" Series 450-470MHz	$ 14.50	$ 9.10
FASC73US UPGRADE	Pull std antenna, sub FASC73US	$ 2.00	$ 1.26
FL100	FL100 500Hz CW Filter-575/725	$ 165.00	$ 103.54
FL101	FL101 CW/RTTY Filter-725/765	$ 165.00	$ 103.54
FL222	FL222 775 1.9kHz SSB Filter	$ 300.00	$ 188.25
FL223	FL223 706 9MHz 1.9kHz SSB Fltr	$ 150.00	$ 94.13
FL232	FL232 **NO LONGER AVAILABLE** 350Hz CW/RTTY Filter-HF	$ 170.00	$ 106.68
FL257	FL257 **NO LONGER AVAILABLE** 756 3.3kHz SSB Filter	$ 265.00	$ 166.29
FL430	FL430 9100/7410 6kHz first fil ter	$ 125.00	$ 78.44

Model	Description	Retail	State Price
FL431	FL431 9100/7410 3kHz first fil ter	$ 125.00	$ 78.44
FL52A	FL52A 500Hz 455KHz CW Filter	$ 284.00	$ 178.21
HM103	HM103 706 Std Hand Mic 706MK2 SCREW 8810010220 HNGR	$ 108.00	$ 67.77
HM126B	HM126B M504 Standard Mic Black	$ 83.00	$ 52.08
HM126G	HM126G M504 Standard Mic Gray	$ 83.00	$ 52.08
HM126RB	HM126RB M504 Rear / M604 Mic Standard Black	$ 83.00	$ 52.08
HM126RG	HM126RG M504 Rear / M604 Mic Standard Gray	$ 83.00	$ 52.08
HM128	HM128 T7H 36 Earphone Mic	$ 30.00	$ 18.83
HM128L	HM128L F3G/F4G Earphone Mic	$ 28.50	$ 17.88
HM131	HM131 V82 91A T7H Speaker Mic with earphone jack and clip	$ 45.00	$ 28.24
HM131SC	HM131SC F3161/F4161/F70/F80/ F30G/F40G Mic w/ Earphone Jack	$ 79.00	$ 49.57
HM133	HM133 Std Remote Mic-2720H	$ 99.00	$ 62.12
HM133S	HM133S Std Remote Mic-2100HN	$ 106.00	$ 66.52
HM133V	HM133V Std Remote Mic-V8000	$ 106.00	$ 66.52
HM135	HM135 M802 Microphone	$ 91.00	$ 57.10
HM136B	HM136B M602 Std. Mic Black	$ 125.00	$ 78.44
HM136W	HM136W M602 Std. Mic White	$ 125.00	$ 78.44
HM138	HM138 F50/M88 Waterproof Spkr Mic	$ 130.00	$ 81.58
HM141B 11	HM141B 11 M402A Std. Mic Black	$ 55.00	$ 34.51
HM141G 13	HM141G 13 M302 Std. Mic Gray	$ 55.00	$ 34.51
HM141W 12	HM141W 12 M402A Std. Mic White	$ 55.00	$ 34.51
HM144W 14	HM144W M502AW Standard Mic	$ 79.00	$ 49.57
HM148G UPGRADE	Pull HM152, replace w/HM148G Also, remove screw kit.	$ 56.00	$ 35.14
HM148T	HM148T DTMF Version of HM148G F9511HT	$ 156.00	$ 97.89
HM148T SUBSTITUTION	Pull HM148G replace w/HM148T	$ 56.00	$ 35.14
HM148T UPGRADE	Pull HM152 replace w/HM148T	$ 115.00	$ 72.16
HM150B	HM150B M422 Standard Mic Black	$ 44.00	$ 27.61
HM150SW	HM150SW M422W Standard Mic Super White	$ 44.00	$ 27.61
HM151	HM151 Remote Control Mic-7000	$ 145.00	$ 90.99
HM152	HM152 Modular Hand Microphone	$ 44.00	$ 27.61
HM152 SUBSTITUTION	Pull stock mic, sub HM152	$ (56.00)	$ (35.14)
HM152T	HM152T DTMF Modular Hand Mic Replaces HM100T	$ 90.00	$ 56.48
HM152T SUBSTITUTION	Pull HM148G, replace w/HM152T	$ (10.00)	$ (6.28)
HM152T UPGRADE	Pull HM152, replace w/HM152T	$ 46.00	$ 28.87
HM152TH	HM152TH Tone Hot DTMF Mic	$ 85.00	$ 53.34
HM153	HM153 Earphone Mic T70A 91A/AD	$ 109.00	$ 68.40
HM153L	HM153L Heavy Duty Earphone Mic F11/F14/F3G/F33G/4008/4088	$ 125.00	$ 78.44
HM153LA	HM153LA 2-Wire Earphone w/ PTT F3011/F3001/F14/F3021/F3031	$ 125.00	$ 78.44
HM153LS	HM153LS Durable Earphone Mic w/ Slim L Connector ID31A 05	$ 175.00	$ 109.81
HM153P	HM153P Earphone Mic for P7A	$ 120.00	$ 75.30
HM154	HM154 Mic for 208H/2100H/2720H	$ 55.00	$ 34.51
HM154T	HM154T 7000/706MK2G DTMF Mic 2100H/706MK2G/208H/2720H/ID800	$ 90.00	$ 56.48
HM157B 11	HM157B 11 Command Mic II Black	$ 175.00	$ 109.81
HM157SW 12	HM157SW 12 Command Mic II Super White	$ 175.00	$ 109.81
HM158L LG	HM158L ** NLA - USE HM158LA ** Low Gain F11/F14/F33G/V8/V82	$ 47.00	$ 29.49
HM159LA	HM159LA Heavy duty Speaker Mic F3001/F3011/F3021/F3031/V82	$ 77.00	$ 48.32
HM159SC LG	HM159SC LG F3061 Speaker Mic Low Gain earphone jack + clip	$ 92.00	$ 57.73
HM161	HM161 Std Hand Microphone A110	$ 44.00	$ 27.61
HM162B	HM162B Command Mic III Black	$ 300.00	$ 188.25
HM162SW	HM162SW Command Mic III Super White	$ 300.00	$ 188.25
HM164B	HM164B M304 Standard Mic Black M412 Standard	$ 44.00	$ 27.61
HM164G	HM164G M304 Standard Mic Gray	$ 44.00	$ 27.61
HM164SW	HM164SW M304 Standard Mic M412 Standard "Super White"	$ 44.00	$ 27.61
HM165	HM165 M34 Waterproof Spkr Mic	$ 87.00	$ 54.59
HM166L	HM166L *NLA - USE HM166LA* Earphone Microphone	$ 53.00	$ 33.26
HM166LS	HM166LS Light Earphone Mic w/ Slim L Connector ID31A 05	$ 99.00	$ 62.12
HM167	HM167 M72 Waterproof Spkr Mic GM1600 Lightweight	$ 97.00	$ 60.87
HM169	HM169 Waterproof Speaker Mic F50 F60 F70	$ 105.00	$ 65.89
HM169 IS	HM169 IS Intrinsically Safe Waterproof Speaker Mic	$ 145.00	$ 90.99
HM170GP	HM170GP Waterprf GPS Spkr Mic	$ 365.00	$ 229.04
HM171GP	HM171GP GPS Spkr Mic F3101D F4101D F3103D F4103D	$ 360.00	$ 225.90
HM173	HM173 A24 A6 Speaker Mic A22 A3 A14 **NOT for the A4**	$ 106.00	$ 66.52
HM174	HM174 Waterproof Spkr Mic 92AD Equivalent to IPX7	$ 165.00	$ 103.54
HM175GPS	HM175GPS 92AD Waterproof Spkr Mic w/GPS Rcvr. Equiv to IPX7	$ 325.00	$ 203.94
HM176	HM176 Microphone A210 A200 PS80	$ 185.00	$ 116.09
HM180	HM180 M710 M700PRO Microphone	$ 106.00	$ 66.52
HM184	HM184 Waterproof SpkrMic F9011	$ 158.00	$ 99.15
HM186LS	HM186LS Compact Speaker Mic w/ Slim L Connector ID31A 05	$ 65.00	$ 40.79
HM189GPS	HM189GPS 80AD 2-Pin GPS Mic	$ 325.00	$ 203.94
HM195B	HM195B Command Mic 4 Black	$ 350.00	$ 219.63
HM195B	HM195B Command Mic 4 Black	$ 350.00	$ 219.63
HM195SW	HM195SW Command Mic 4 White	$ 350.00	$ 219.63
HM195SW	HM195SW Command Mic 4 White	$ 350.00	$ 219.63
HM196B	HM196B Standard Mic M424 Black	$ 85.00	$ 53.34
HM196SW	HM196SW Standard Mic M424 Whte	$ 85.00	$ 53.34
HM36	HM36 Scanning Mic	$ 100.00	$ 62.75
HM46	HM46 Speaker Microphone	$ 60.00	$ 37.65
HM46L	HM46L Speaker Microphone	$ 60.00	$ 37.65

Model	Description	Retail	State Price
HM54	HM54 Speaker Mic	$ 80.00	$ 50.20
HM75A	HM75A Black Version - V21AT	$ 95.00	$ 59.61
HM75LS	HM75LS Remote Control Spkr Mic w/ Slim L Connector ID31A 05	$ 99.00	$ 62.12
HM-HD7I7WP	HM-HD7I7WP 2p Waterproof Spkr Mic F3031/F4031 +All 2p Radios	$ 100.00	$ 62.75
HS51	HS51 Headset w/ Vox Function	$ 125.00	$ 78.44
HS85	HS85 Headset w/Vox W32A 4008A	$ 145.00	$ 90.99
HS94	HS94 LM Ear Piece Type Headset	$ 25.00	$ 15.69
HS95	HS95 Headset with Boom Mic Land Mobile + Amateur Radios	$ 215.00	$ 134.91
HS97	HS97 Earphone with Throat Mic Land Mobile + Amateur Radios	$ 42.00	$ 26.36
HS98	HS98 Handset for M802	$ 275.00	$ 172.56
IA-10301	IA-10301 GPS for IDAS Mobiles F5061/F6061 Quick Silver	$ 110.00	$ 69.03
IA10600A	IA10600A 600 Ohm Audio Adapter F5061 F6061	$ 50.00	$ 31.38
IA10600B	IA10600B 600 Ohm Audio Adapter FR5000 FR6000	$ 50.00	$ 31.38
IA-BC171	IA-BC171 Heavy Duty Vehicular Charger	$ 375.00	$ 235.31
IAS 1RU ANT SW-DUAL	IAS 1RU ANT SW-DUAL 19" Rack Mount Ant. Switch	$ 1,000.00	$ 627.50
IAS 1RU ANT SW-SINGLE	IAS 1RU ANT SW-SINGLE 19" Rack Mount Ant. Switch	$ 583.33	$ 366.04
IAS AD-RH9-6	IAS AD-RH9-6 Adapter Redhawk Adapt 6P Conn on Cable to 9P	$ 85.00	$ 53.34
IAS BC-RHADPTR	IAS BC-RHADPTR 100-240V Chrger Adpter for use w IAS OPC-RHUSB	$ 70.00	$ 43.93
IAS BC-RHCHG1	IAS BC-RHCHG1 100-240V Single Unit Charger	$ 105.00	$ 65.89
IAS BC-RHCHG12	IAS BC-RHCHG12 100-240V 12unit Charger	$ 1,000.00	$ 627.50
IAS BP-RHBATT1	IAS BP-RHBATT1 3.8V 1200mAh Battery for GPS Mic	$ 45.00	$ 28.24
IAS COAX RLY KIT FR3000	IAS COAX RLY KIT FR3000 Antenna Relay Kit FR3000/4000	$ 422.00	$ 264.81
IAS CS-RHSW	IAS CS-RHSW Utility Software	$ 120.00	$ 75.30
IAS FR5000 DP KIT 140-145	IAS FR5000 DP KIT 140-145 Duplexer Installation Kit	$ 583.33	$ 366.04
IAS FR5000 DP KIT 150-155	IAS FR5000 DP KIT 150-155 Duplexer Installation Kit	$ 583.33	$ 366.04
IAS FR5000 DP KIT 150-159	IAS FR5000 DP KIT 150-159 Duplexer Installation Kit	$ 583.33	$ 366.04
IAS FR5000 DP KIT 152-155	IAS FR5000 DP KIT 152-155 Duplexer Installation Kit	$ 583.33	$ 366.04
IAS FR5000 DP KIT 160-165	IAS FR5000 DP KIT 160-165 Duplexer Installation Kit	$ 583.33	$ 366.04
IAS FR6000 DP KIT 400-405	IAS FR6000 DP KIT 400-405 Duplexer Installation Kit	$ 583.33	$ 366.04
IAS FR6000 DP KIT 440-445	IAS FR6000 DP KIT 440-445 Duplexer Installation Kit	$ 583.33	$ 366.04
IAS FR6000 DP KIT 457-462	IAS FR6000 DP KIT 457-462 Duplexer Installation Kit	$ 583.33	$ 366.04
IAS OPC-RHAC9	IAS OPC-RHAC9 Cable Redhawk 9P Open Ended / No Connector	$ 80.00	$ 50.20
IAS OPC-RHDPH	IAS OPC-RHDPH Cable Redhawk	$ 200.00	$ 125.50
IAS OPC-RHEF5100	IAS OPC-RHEF5100 Cable Redhawk	$ 180.00	$ 112.95
IAS OPC-RHI14	IAS OPC-RHI14 Cble Redhawk 14P F9011	$ 275.00	$ 172.56
IAS OPC-RHI2	IAS OPC-RHI2 Cable Redhawk 2P F3001 F4001	$ 93.00	$ 58.36
IAS OPC-RHI9	IAS OPC-RHI9 Cable Redhawk 9P F3161 F4161 F70 F80	$ 99.00	$ 62.12
IAS OPC-RHS2	IAS OPC-RHS2 Cable Redhawk 2P Use w/ IAS AD-RH9-6	$ 92.00	$ 57.73
IAS OPC-RHS3	IAS OPC-RHS3 Cable Redhawk 2P Use w/ IAS AD-RH9-6	$ 110.00	$ 69.03
IAS OPC-RHUSB	IAS OPC-RHUSB USB Cable to Connect Mic w PC / Chrgr Adptr	$ 30.00	$ 18.83
IAS RACK PACK	IAS RACK PACK Crating for Rack up to 72"	$ 287.00	$ 180.09
IAS REDHAWK	IAS REDHAWK GPS Speaker Mic w/ LCD Display,Battery,USB Cable	$ 584.00	$ 366.46
IAS RF JUMPER	IAS RF JUMPER Custom Cut Jumpe r- LMR-200 or 400 N Connectors	$ 83.00	$ 52.08
IAS UHF DUP KIT 457-462	IAS UHF DUP KIT 457-462 Duplexer Installation Kit	$ 583.33	$ 366.04
IAS VHF DUP KIT 150-155	IAS VHF DUP KIT 150-155 Duplexer Installation Kit	$ 583.33	$ 366.04
IAS VHF DUP KIT 150-159	IAS VHF DUP KIT 150-159 Duplexer Installation Kit	$ 583.33	$ 366.04
IAS VHF DUP KIT 152-155	IAS VHF DUP KIT 152-155 Duplexer Installation Kit	$ 583.33	$ 366.04
IA-TC100A	IA-TC100A Travel Charger F3161 F4161	$ 45.00	$ 28.24
IA-TC100B	IA-TC100B Travel Charger F14 F3021 F33G F3011	$ 45.00	$ 28.24
ICT 22012-35A/IC	ICT 22012-35A/IC 12V RFT PS 35A Continuous 110-220 VAC IN	$ 663.00	$ 307.00
ICT 22024-70N	ICT 22024-70N 2-Module 24V N+1 Power Supply	$ 2,505.00	$ 1,571.89
ICT CS120-20A/IC06	F1721/F2721/F9511 120V/20A Power Supply w/ Cover	$ 230.00	$ 144.33
ICT IC04 220V	ICT IC04 220V Power Supply for F5011/F6011 & F5021/F6021	$ 255.00	$ 160.01
LC128	LC128 W31A/W32A w/All Battery	$ 42.00	$ 26.36
LC146A	LC146A R5/R6 Carrying Case	$ 30.00	$ 18.83
LC151	LC151 R3 Carrying Case	$ 30.00	$ 18.83
LC152A	LC152A T90A w/All Battery	$ 30.00	$ 18.83
LC158	LC158 R20 Carrying Case	$ 45.00	$ 28.24
LC159	LC159 Carrying Case-A6/A24	$ 43.00	$ 26.98
LC163	LC163 91A/AD Carrying Case	$ 45.00	$ 28.24
LC167	LC167 V85 Carrying Case	$ 45.00	$ 28.24
LC168	LC168 92AD Carrying Case	$ 35.00	$ 21.96
LC174	LC174 T70A Carrying Case	$ 45.00	$ 28.24
LC178	LC178 ID31A 05 Carrying Case	$ 45.00	$ 28.24
LCM72S	LCM72S M72 Leather Case With Swivel	$ 40.00	$ 25.10
LCM88L	LCM88L M88 Leather Case With Loop	$ 40.00	$ 25.10
LCM88S	LCM88S M88 Leather Case With Swivel	$ 40.00	$ 25.10
M302G MMB	M302G MMB Gray Mounting Brkt M304	$ 27.00	$ 16.94
M422 DUST COVER	M422 DUST COVER Works with M422 and M412	$ 17.00	$ 10.67
M422 MMB	M422 MMB Black Mounting Brkt M412	$ 27.00	$ 16.94
M422SW MMB	M422SW MMB Mounting Bracket Super White M412	$ 27.00	$ 16.94
M45 MMB	M45 MMB M45B Mounting Bracket M402 M402S M302	$ 27.00	$ 16.94
M45W MMB	M45W MMB M45W Mounting Bracket M402 M402S M302	$ 27.00	$ 16.94
M504B MMB	M504B MMB Black Mounting Brack M502 M504	$ 29.00	$ 18.20
M504G MMB	M504G MMB Gray Mounting Brack	$ 29.00	$ 18.20
M602 MMB	M602 MMB Black Mounting Bracke M602 01	$ 29.00	$ 18.20
M602W MMB	M602W MMB White Mounting Brack M602W 02	$ 29.00	$ 18.20
M604G MMB	M604G MMB Gray Mountng Bracket	$ 29.00	$ 18.20

Model	Description	Retail	State Price
M802 CHEA	M802 CHEA Ctrl Head Ext. Cable	$ 23.00	$ 14.43
M802 MMB	M802 MMB Mounting Bracket M802	$ 54.00	$ 33.89
MB103	MB103 F3G/F4G Alligator Clip F30G F40G *N Series Batteries*	$ 12.50	$ 7.84
MB103Y	MB103Y GM1600 Alligator Clip	$ 14.00	$ 8.79
MB105	MB105 Front Panel MMB 7000	$ 30.00	$ 18.83
MB106	MB106 Carry Handle for 7000	$ 27.00	$ 16.94
MB107	MB107 91A/AD Belt Clip **Needs qty=2 8810010470 screws**	$ 10.00	$ 6.28
MB109	MB109 M34 M36 Belt Clip	$ 9.00	$ 5.65
MB111	MB111 92AD Belt Clip 8810010470	$ 20.00	$ 12.55
MB112G	MB112G **NO LONGER AVAILABLE** RX7 Belt Clip	$ 15.00	$ 9.41
MB113	MB113 SL-40 adapter for A210	$ 85.00	$ 53.34
MB115	MB115 Alligator Type Belt Clip suppled with F9011	$ 10.00	$ 6.28
MB116	MB116 Front Handles 7200 02	$ 92.00	$ 57.73
MB117	MB117 Carrying Handle 7200 02	$ 30.00	$ 18.83
MB118	MB118 Mobile Mounting Bracket 7200	$ 30.00	$ 18.83
MB120	MB120 *NLA - use MBF1* 706 CH Mounting Base	$ 80.00	$ 50.20
MB123	MB123 9100/7410 Carry Handle Same as supplied	$ 35.00	$ 21.96
MB124	MB124 F3001 Alligator Clip F4001 F3003 F4003 V80	$ 12.00	$ 7.53
MB127	MB127 Alligator Type ID31A 05	$ 25.00	$ 15.69
MB130	MB130 Vehicle Charger Bracket Fits BC160/BC190/BC191/BC192	$ 83.00	$ 52.08
MB132	MB132 Flush Mount Kit for M424	$ 37.00	$ 23.22
MB132	MB132 Flush Mount Kit for M424	$ 37.00	$ 23.22
MB23	MB23 Carry Handle 821H/R8500	$ 20.00	$ 12.55
MB28H	MB28H 28H,228H,229H ID800H MMB 2350H 2710 207H 2200H 27A 208H	$ 29.00	$ 18.20
MB5	MB5 ** NO LONGER AVAILABLE ** Mnt Brkt 821H R72 718 78 R75	$ 70.00	$ 43.93
MB53 02	MB53 02 MMB w/Mic & Harness A200 A210 HM176	$ 500.00	$ 313.75
MB62	MB62 Main Unit MMB 7000 706MK2G	$ 50.00	$ 31.38
MB63	MB63 FRONT PNL MMB 706 706MK2 706MKII	$ 40.00	$ 25.10
MB69	MB69 FMS M412 M402/M302/M45/M304/M422	$ 37.00	$ 23.22
MB72	MB72 706MK2G Carry Handle	$ 20.00	$ 12.55
MB74N	MB74N F3G/F4G Alligator Clip F30G F40G F4 F21 M3A T2A A4	$ 12.00	$ 7.53
MB75	MB75 FMS M504/M604/MA500TR M502/M602	$ 35.00	$ 21.96
MB76	MB76 A23/A5 Belt Clip	$ 5.00	$ 3.14
MB77	MB77 FR3000 Wall Mount Bracket	$ 130.00	$ 81.58
MB78	MB78 FR3000 Rack Mount Bracket	$ 150.00	$ 94.13
MB84	MB84 2720H Controller Bracket	$ 24.00	$ 15.06
MB85	MB85 2720H Combination Bracket	$ 32.00	$ 20.08
MB86	MB86 M88 Swivel Belt Clip SCREW 8810010430	$ 11.00	$ 6.90
MB87	MB87 Swivel Belt Clip for F11 F3G F30G M2A M3A V8	$ 10.00	$ 6.28
MB92	MB92 M302 M402 Dust Cover M402S M402A M402SA M304	$ 10.00	$ 6.28
MB93	MB93 F43TR Swivel Belt Clip	$ 11.00	$ 6.90
MB94	MB94 F3021 Alligator Belt Clip A14 F3161 F43TR F14 F24	$ 10.50	$ 6.59
MB94R	MB94R Long RR Version Beltclip F3161 F3021 A14 F43TR	$ 18.00	$ 11.30
MB96F	MB96F Leather Belt Hanger	$ 35.00	$ 21.96
MB96N	MB96N Swivel Belt Hanger	$ 37.00	$ 23.22
MB98	MB98 F50/F60 Standrd Belt Clip	$ 13.00	$ 8.16
MBF1	MBF1	$ 85.00	$ 53.34
MN100	MN100 Antenna Match Box	$ 480.00	$ 301.20
MN100L	MN100L Antenna Match Box	$ 455.00	$ 285.51
MOUNT 1	MOUNT 1 NMO Permanent Mount	$ 23.00	$ 14.43
MOUNT 2	MOUNT 2 Trunk Lid Mount	$ 35.00	$ 21.96
MOUNT 3	MOUNT 3 Black Magnetic Mount	$ 42.00	$ 26.36
MXG5000 02	MXG5000 02 GPS Receiver See kit MA500TR KIT	$ 425.00	$ 266.69
NCM88	NCM88 M88 Nylon Case w/ Clip	$ 26.00	$ 16.32
OPC025A	OPC025A OPC 751/745/740/735	$ 45.00	$ 28.24
OPC025D	OPC025D 6pin HF DC Power Cable 706MK2/G, 756PRO/2, 718	$ 45.00	$ 28.24
OPC1000	OPC1000 20' Connection Cable HM157 (mounting hardware req.)	$ 49.00	$ 30.75
OPC1069A	OPC1069A Control Cable IDRP2 IDRP2D/V	$ 15.00	$ 9.41
OPC1106	OPC1106 M802 Separation Cable	$ 45.00	$ 28.24
OPC1107A	OPC1107A M802 Main Unit DC PC	$ 28.00	$ 17.57
OPC1122	OPC1122 F121/F1721/F5061/F521 Cloning Cable, Radio to PC	$ 99.00	$ 62.12
OPC1122U	OPC1122U USB Clone Cable F1721 F1821 F121/221 F521/621	$ 99.00	$ 62.12
OPC1132	OPC1132 V8000/2720H/F121/F221 3m DC PC	$ 45.00	$ 28.24
OPC1147N	OPC1147N M802 to AT140N (10m) Shielded Control Cable	$ 79.00	$ 49.57
OPC1154A	OPC1154A 3.5m Front Panel Separation - R1500/R2500/2720H	$ 20.00	$ 12.55
OPC1156	OPC1156 2720H 3.5m Extension Cable	$ 22.00	$ 13.81
OPC1174	OPC1174 M602 DC Power Cord	$ 14.00	$ 8.79
OPC1229	OPC1229 703 Standard DC PC	$ 35.00	$ 21.96
OPC1248	OPC1248 Connects 703 to PS125	$ 20.00	$ 12.55
OPC1309	OPC1309 DC In Cable IDRP2 IDRP2D/V	$ 32.00	$ 20.08
OPC136	OPC136 Control Cable AH2 AH4	$ 32.00	$ 20.08
OPC1380	OPC1380 Power Cable IDRP2C	$ 62.00	$ 38.91
OPC1382	OPC1382 **NO LONGER AVAILABLE* USB Cable for PC to R20 prog.	$ 18.00	$ 11.30
OPC1384	OPC1384 8pin MiniDin to RS232C Data Cable for ID800H	$ 42.00	$ 26.36
OPC1392	OPC1392 M72/GM1600 Headset Adapter M90	$ 75.00	$ 47.06
OPC1443	OPC1443 3.5m Remote Cable-7000 8810001910	$ 75.00	$ 47.06
OPC1444	OPC1444 7m Remote Cable-7000	$ 110.00	$ 69.03
OPC1457	OPC1457 4-Pin HF DC Power Cord 7200, 7410, 7600, 9100, 7000	$ 55.00	$ 34.51

Model	Description	Retail	State Price
OPC1529R	OPC1529R 91A/AD Data Cable	$ 41.00	$ 25.73
OPC1532	OPC1532 Copy Cable for F1721 Mobile to mobile cloning cable	$ 42.00	$ 26.36
OPC1533	OPC1533 Copy Cable F1721/F70 Cloning btween mobile/portable	$ 88.00	$ 55.22
OPC1534	OPC1534 Key Loader Cable F1721 KVL3000Plus cable to mobile	$ 225.00	$ 141.19
OPC1536	OPC1536 Copy Cable for F70 Portable to portable cloning	$ 123.00	$ 77.18
OPC1540	OPC1540 20' Connection Cable HM162/195 (mount hardware req)	$ 49.00	$ 30.75
OPC1541	OPC1541 20' Extension Cable HM162 -for added distance only	$ 49.00	$ 30.75
OPC1542	OPC1542 Remote Mic Cable M504	$ 49.00	$ 30.75
OPC1558	OPC1558 Key Loader Cable F70 KVL3000Plus cable to portable	$ 225.00	$ 141.19
OPC1655	OPC1655 M34 Cloning Cble Adptr	$ 47.00	$ 29.49
OPC1663	OPC1663 Separation Cable-2820H	$ 18.00	$ 11.30
OPC1712	OPC1712 Controller Cable-2820H 8900016370*	$ 11.00	$ 6.90
OPC1797	OPC1797 Plug Adaptr Cable 92AD Multipin to SP/Mic connectors	$ 60.00	$ 37.65
OPC1862	OPC1862 Cloning Cable F9011	$ 189.00	$ 118.60
OPC1870	OPC1870 Portable to Portable Zone Copy Cable F9011 F9021	$ 125.00	$ 78.44
OPC1871	OPC1871 Radio to Radio Cloning Cable for Portable to Mobile	$ 110.00	$ 69.03
OPC1939	OPC1939 15Pin ACC Cable F5021 F6021	$ 95.00	$ 59.61
OPC1954	OPC1954 MXA5000 Power Cable	$ 12.00	$ 7.53
OPC2004	OPC2004 Adapter HS94/95/97 F3001 F4001	$ 30.00	$ 18.83
OPC2006	OPC2006 Adapter HS94/95/97 T70A	$ 25.00	$ 15.69
OPC2006LS	OPC2006LS Plug Adapter Cable HS94 HS95 HS97 ID31A 05	$ 35.00	$ 21.96
OPC2078	OPC2078 F5021/F5121D ACC Cable D-sub 25pin	$ 120.00	$ 75.30
OPC2091	OPC2091 M24 Cloning Cble Adptr	$ 35.00	$ 21.96
OPC2144	Slim L-Type Plug Adapter Cable for Speaker Mic/Headphone ID31	$ 35.00	$ 21.96
OPC2218LU	OPC2218LU Cloning/Data Cable (USB) ID31A 05	$ 75.00	$ 47.06
OPC254L	OPC254L Charging Cord/T22A	$ 20.00	$ 12.55
OPC344	OPC344 A110 Std Power Cord	$ 16.00	$ 10.04
OPC345	OPC345 Std Pwr Cord-2340H	$ 30.00	$ 18.83
OPC346	OPC346 STD PWR 281H DELTA 100H 2000H F320S F420S F1020 2710H	$ 45.00	$ 28.24
OPC347	OPC347 OPTIONAL 7M DC PWR CORD 281H DELTA 100H 2000H 2340H	$ 70.00	$ 43.93
OPC440	OPC440 Mic Extnsion Cable-281H 2700H 2000H 2710H 207H	$ 100.00	$ 62.75
OPC441	OPC441 Speaker Extension Cable 2720H	$ 44.00	$ 27.61
OPC474	OPC474 Clone HH-HH -A3/A22/F10	$ 20.00	$ 12.55
OPC478	OPC478 F11/F14/T7/T2/A3/M59 Cloning Cable, PC to HH RS232S	$ 60.00	$ 37.65
OPC478UC	OPC478UC USB Cable 3.5mm Plug	$ 70.00	$ 43.93
OPC510	OPC510 7800/7700 AC Pwr Cable	$ 18.00	$ 11.30
OPC515L	OPC515L DC Pwr Cable A3 A22 M1	$ 26.00	$ 16.32
OPC552	OPC552 **NO LONGER AVAILABLE** CLONING CABLE M710 M700	$ 75.00	$ 47.06
OPC566	OPC566 AT130 to M710 (30 ft.)	$ 168.00	$ 105.42
OPC568	OPC568 M710/M700PRO Power Cord	$ 29.00	$ 18.20
OPC581	OPC581 3.5m Remote Kit-706	$ 85.00	$ 53.34
OPC587	OPC587 5m Remote Kit-706	$ 105.00	$ 65.89
OPC589	OPC589 2000H/706 Pig Tail Plug FOR CONN. ONLY SEE 6510016210	$ 45.00	$ 28.24
OPC592	OPC592 PC To OPC478 Cloning FR3000 FR4000	$ 17.00	$ 10.67
OPC599	OPC599 13pin Conn w/Cable-706	$ 80.00	$ 50.20
OPC600R	OPC600R 3.5m Remote Kit-208H	$ 75.00	$ 47.06
OPC601R	OPC601R 7m Remote Kit-208H	$ 90.00	$ 56.48
OPC607	OPC607 F1721 3m Separation Cbl	$ 67.00	$ 42.04
OPC608	OPC608 F1721 8m Separation Cbl	$ 84.00	$ 52.71
OPC609	OPC609 F5061 1.9m Sep. Cable F1020 1.9m Sep Cable F5061	$ 62.00	$ 38.91
OPC617	OPC617 Acc Cable F121/F221 F1020/F320/F420	$ 65.00	$ 40.79
OPC656	OPC656 BC121N DC Power Cable	$ 12.00	$ 7.53
OPC726	OPC726 F9511HT 16.3 ft Separation Cable	$ 75.00	$ 47.06
OPC752	OPC752 Headset Adptr-A4	$ 75.00	$ 47.06
OPC822	OPC822 RS232C Cable	$ 72.00	$ 45.18
OPC822Y	OPC822Y Dual Lead Cable	$ 85.00	$ 53.34
OPC871	OPC871 A110 Headset Adapter	$ 154.00	$ 96.64
OPC891A	OPC891A M504/M422 Power Cord M412 M402	$ 12.00	$ 7.53
OPC922	OPC922 M72 Cloning Cable Adptr	$ 65.00	$ 40.79
OPC946A	OPC946A USE OPC891A M502	$ 12.00	$ 7.53
OPC960	OPC960 PW1U Separation Cable 10-pin version PW1	$ 50.00	$ 31.38
OPC966	OPC966 F50/F70/F3061/F30G CLoning Cable, Radio to PC	$ 168.00	$ 105.42
OPC966U	OPC966U F3061 Cloning Cable Radio to PC F30G F50 F70 F3061	$ 168.00	$ 105.42
OPC980	OPC980 M504 Cloning Adptr Cabl	$ 31.00	$ 19.45
OPC999	OPC999 20' Extension Cable HM157 -for added distance only	$ 49.00	$ 30.75
P25 UPGRADE MOBILE	P25 UPGRADE MOBILE P25 Frmware Upgrade	$ 882.00	$ 553.46
P25 UPGRADE PORTABLE	P25 UPGRADE PORTABLE P25 Firm ware Upgrade	$ 882.00	$ 553.46
P7A ANT	P7A ANT P7A Flexible Antenna	$ 20.00	$ 12.55
PAN ANT-H5	PAN ANT-H5 149-159MHz F9011 Antenna	$ 26.00	$ 16.32
PASSPORT 2.8 UPGRADE	PASSPORT 2.8 UPGRADE	$ 60.00	$ 37.65
PASSPORT 4.0 UPGRADE	PASSPORT 4.0 UPGRADE	$ 85.00	$ 53.34
PS125 02	PS125 02 13.8V 25A PS 756PRO	$ 446.00	$ 351.23
PS126 12	PS126 12 13.8V/25A Ext PS w/ 4Pin 110V	$ 499.00	$ 392.96
PS80 04	PS80 04 A210 PS w/HM176 A200	$ 1,040.00	$ 652.60
PTT SW	PTT SW Avionic PTT Switch	$ 28.00	$ 17.57
RC25	RC25 M802 Front Head	$ 441.00	$ 276.73
RC28	RC28 RSBA1 Remote Dial	$ 296.00	$ 233.10
RCFS10 05	RCFS10 05 Remote Communicator Pckg Incl RCFS10 Sftwr & CT24	$ 1,995.00	$ 1,251.86

Model	Description	Retail	State Price
RCFS10 05	RCFS10 05 Remote Communicator Pckg Incl RCFS10 Sftwr & CT24	$ 1,995.00	$ 1,251.86
RFFM1	RFFM1 RF Technology Fan Module	$ 300.00	$ 188.25
RFT E2-EXT-REF-CABLE	RFT E2-EXT-REF-CABLE External Reference Input	$ 245.00	$ 153.74
RFT IP E2-P25	RFT IP E2-P25 Programming Software P25 and Analog	$ 445.00	$ 205.88
RFT P25 UHF Manual	RFT P25 UHF MANUAL Service Manual P25 UHF	$ 112.00	$ 70.28
RFT P25 VHF Manual	RFT P25 VHF MANUAL Service Manual P25 VHF	$ 112.00	$ 70.28
RFT P25-C	RFT P25-C P25 firmware upgrade	$ 3,428.00	$ 1,588.24
RMK2	RMK2 F1721/1821 Separation Kit ** CABLE NOT INCLUDED **	$ 145.00	$ 90.99
RMK3 01	RMK3 01 F5061/6061 Separation Kit ** CABLE NOT INCLUDED **	$ 130.00	$ 81.58
RMK4 01	RMK4 01 F9511HT Dual Head Separation Kit *NO CABLE INCL*	$ 860.00	$ 539.65
RMK7000	RMK7000 Remote Mount Kit-7000 MB62 + MB105 + OPC1443	$ 125.00	$ 78.44
RR FIRMWARE UPGRADE	RR FIRMWARE UPGRADE	$ 25.00	$ 15.69
RS91	RS91 91A/AD Control Software	$ 70.00	$ 43.93
RS92	RS92 92AD Control Software w/ OPC1799	$ 110.00	$ 69.03
RSBA1	RSBA1 IP Remote Cntrl Software includes cable	$ 129.00	$ 80.95
RSID1	RSID1 ID1 Control Software	$ 44.00	$ 27.61
RSR75	RSR75 Remote Cntrl Software	$ 100.00	$ 62.75
RSRP2 G2	RSRP2 G2 IDRP2 Gateway Softwre	$ 394.00	$ 310.28
SM26	SM26 Desktop Mic for Mobiles	$ 115.00	$ 72.16
SM30	SM30 Desktop Mic	$ 195.00	$ 122.36
SM50	SM50 7600 Desktop Microphone	$ 400.00	$ 251.00
SP13	SP13 Earphone with 3.5mm Plug For Radio or Speaker Mic	$ 5.00	$ 3.14
SP20	SP20 Base Station Speaker	$ 365.00	$ 229.04
SP21	SP21 Base Station Speaker	$ 217.36	$ 136.39
SP22	SP22 4 OHM External Speaker F320/F420	$ 58.00	$ 36.40
SP23	SP23 Base Station Speaker For 746PRO, 756PRO2, all HF	$ 265.00	$ 166.29
SP24	SP24 External Speaker Marine Radios M402 M502 M802 M45 M127	$ 57.00	$ 35.77
SP27	SP27 Tube Earphone	$ 35.00	$ 21.96
SP30	SP30 External Speaker F9511HT	$ 115.00	$ 72.16
SP33	SP33 Base Station Speaker 7800 7700	$ 120.00	$ 75.30
SP34	SP34 Basestation Speaker Dual Input	$ 465.00	$ 291.79
SP35	SP35 External Speaker with 3.5 mm Spkr Jack and 2m Cable	$ 77.00	$ 48.32
SP5	SP5 ***NLA Use SP35*** Square external speaker	$ 70.00	$ 43.93
SPRING CLIP L	F3/F4 Long Spring Clip Insert Length 3.5 inches	$ 5.00	$ 3.14
SPRING CLIP S	F3/F4 Short Spring Clip Insert Length 2.5 inches	$ 5.00	$ 3.14
UT102	UT102 Voice Syn 706/821/R8500	$ 95.00	$ 59.61
UT106	UT106 Internal DSP Unit	$ 195.00	$ 122.36
UT108	UT108 F3GS/T DTMF DECODER, ANI UNIT	$ 39.00	$ 24.47
UT108R	UT108R DTMF DECODER, ANI UNIT For F3021/F5021 Series	$ 39.00	$ 24.47
UT109 01	UT109 01 Scrambler-Non Rolling For F3/F3S/F3G/F4/F4S/F4G	$ 105.00	$ 65.89
UT109 02	UT109 02 Scrambler-Non Rolling F320/S/F420/S/F30/LT/F40/LT	$ 105.00	$ 65.89
UT109R 21	UT109R 21 Scramblr-Non Rolling For F3021/3061 series	$ 105.00	$ 65.89
UT110 01	UT110 01 Scrambler - Rolling For F3/F3S/F3G/F4/F4S/F4G	$ 173.00	$ 108.56
UT110 02	UT110 02 Scrambler - Rolling F320/S/F420/S/F30/LT/F40/LT	$ 173.00	$ 108.56
UT110R 21	UT110R 21 Scrambler - Rolling For F3021/3061 series	$ 173.00	$ 108.56
UT112	UT112 M504/604 Voice Scrambler M1V M502	$ 160.00	$ 100.40
UT118	UT118 2200H Digital Voice/Data Modulation	$ 299.00	$ 187.62
UT120 01	UT120 01 P25 Hardware Upgrade Board - Handhelds	$ 541.00	$ 339.48
UT120 02	UT120 02 P25 Hardware Upgrade Board - Mobiles	$ 541.00	$ 339.48
UT121	UT121 DSTAR Module	$ 299.00	$ 187.62
UT122	UT122 PCR2500/R2500 P25 Unit	$ 299.00	$ 187.62
UT123	UT123 DSTAR W/ GPS	$ 425.00	$ 266.69
UT124 01	UT124 01 Man/Down Unit F14 F24 F3G F4G F33 F43	$ 90.00	$ 56.48
UT124R 02	UT124R 02 Man/Down Unit F3021 F4021 F3061 F4061	$ 90.00	$ 56.48
UT125 01	UT125 01 AES/DES Encryption Board with OTAR Compliant	$ 789.00	$ 495.10
UT125 FIPS	UT125 FIPS AES Encryption	$ 789.00	$ 495.10
UT126H 03	UT126H 03 F3161 Digital Unit F4161	$ 250.00	$ 156.88
UT128	UT128 *Special Order Only* DES Board F9011/F9511	$ 420.00	$ 263.55
UT79	UT79 M15/M59 Voice Scrambler	$ 99.00	$ 62.12
UT-IA100	UT-IA100 Audio Amp Board (incl install) *Factory Install ONLY	$ 100.00	$ 62.75
UT-IA321	UT-IA321 GPS Mobile Card & Antenna / SimpleTrack	$ 180.00	$ 112.95
UX9100	UX9100 9100 1.2GHz band unit	$ 824.00	$ 648.90
V8000 MMB	V8000 MMB Standard Mounting Bracket for V8000 2820H A110	$ 35.00	$ 21.96
VS1L	VS1L F21/F3G VOX/PTT Unit Use with HS94/HS95/HS96	$ 44.00	$ 27.61
VS1MC	VS1MC PTT/VOX F9011	$ 84.00	$ 52.71
VS1SC	VS1SC F30G PTT Unit Use with HS94/HS95/HS96	$ 68.00	$ 42.67
SERVICES - Discount Rate is 37.25% from Published Retail.			
EXTWARP25M1	EXTWARP25M1 1-year Ext Warrnty Mobiles Only	$ 65.00	$ 40.79
EXTWARP25M2	EXTWARP25M2 2-year Ext Warrnty Mobiles Only	$ 93.00	$ 58.36
EXTWARP25M3	EXTWARP25M3 3-year Ext Warrnty Mobiles Only	$ 130.00	$ 81.58
EXTWARP25P1	EXTWARP25P1 1-year Ext Warrnty Portables Only	$ 65.00	$ 40.79
EXTWARP25P2	EXTWARP25P2 2-year Ext Warrnty Portables Only	$ 93.00	$ 58.36
EXTWARP25P3	EXTWARP25P3 3-year Ext Warrnty Portables Only	$ 130.00	$ 81.58
EXTWARR211	EXTWARR211 1-yr Ext Warranty F3001 F3011 F14 F121 F50 F5021	$ 25.00	$ 15.69
EXTWARR212	EXTWARR212 2-yr Ext Warranty F3001 F3011 F14 F121 F50 F5021	$ 44.00	$ 27.61
EXTWARR213	EXTWARR213 3-yr Ext Warranty F3001 F3011 F14 F121 F50 F5021	$ 62.00	$ 38.91
EXTWARR611	EXTWARR611 1-yr Ext Warranty F3161 F4161 F5061 IDAS Digital	$ 40.00	$ 25.10
EXTWARR612	EXTWARR612 2-yr Ext Warranty F3161 F4161 F5061 IDAS Digital	$ 70.00	$ 43.93

Model	Description	Retail	State Price
EXTWARR613	EXTWARR613 3-yr Ext Warranty F3161 F4161 F5061 IDAS Digital	$ 110.00	$ 69.03
EXTWARRPT1	EXTWARRPT1 1-year Ext Warranty Repeaters - FR Repeaters Only	$ 180.00	$ 112.95
EXTWARRPT2	EXTWARRPT2 2-year Ext Warranty Repeaters - FR Repeaters Only	$ 325.00	$ 203.94
EXTWARRPT3	EXTWARRPT3 3-year Ext Warranty Repeaters - FR Repeaters Only	$ 465.00	$ 291.79
IAS CONSULT DAILY RATE	IAS CONSULT DAILY RATE Consulting/training services	$ 2,083.33	$ 1,307.29
IAS CONSULT TRAVEL DAYS	IAS CONSULT TRAVEL DAYS To-from customer location	$ 833.33	$ 522.92
IAS ONSITE TECH DAILY RTE	IAS ONSITE TECH DAILY RATE System Optimization-Inst Labor	$ 2,083.33	$ 1,307.29
IAS ONSITE TECH TRVL DAYS	IAS ONSITE TECH TRAVEL DAYS To-from customer location	$ 833.33	$ 522.92
INSTALLLM1234	INSTALLLM1234 F3001/F3011/F121 F3021/F50/F5021/F9511/F5061	$ 40.00	$ 25.10
INSTALLLM6789	INSTALLLM6789 F9011/F70/F3161	$ 70.00	$ 43.93
PROGLM1234	PROGLM1234 F3001/F3011/F3021 F121/F50/F5021	$ 42.00	$ 26.36
PROGLM6789	PROGLM6789 F9011/F9511/F70/ F1721/F5061/F3161	$ 70.00	$ 43.93
PROGRAMMING IAS	PROGRAMMING IAS Systems Division	$ 50.00	$ 31.38
SERVICE/SALE BUILD-UP IAS	SERVICE/SALE BUILD-UP IAS	$ 80.00	$ 50.20
SERVICE/SALE BUILD-UP IAS	SERVICE/SALE BUILD-UP IAS	$ 80.00	$ 50.20

Icom products that may be discontinued during contract period and will be removed from the Icom America Retail Price List. A replacement, if available, will be noted. Should you have any questions or require further clarification, please feel free to contact our Sales Contract Administratoin desk at salescontracts@icomamerica.com. Thank you for your understanding.